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195090

From: Dunston, Jennifer A.
Sent: Monday, July 10, 2006 3:30 PM
To: STIC-Biotech/ChemLib
Subject: Sequence Search 10/659782

Please search nucleotides 112-462 of SEQ ID NO: 11 and the amino acid sequence of SEQ ID NO: 32 against the commercial and interference protein databases.

Thank you.

Jennifer Dunston, Ph.D.
USPTO Art Unit 1636
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Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: 7-12-06
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

GenCore version 5.1.9
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OM protein - protein search, using sw model

Run on: July 11, 2006, 16:56:38 ; Search time 196 Seconds
(without alignments)
272.930 Million cell updates/sec

Title: US-10-659-782B-32
Perfect score: 620
Sequence: 1 MPSPQTVCSLLLLGMLWLDL.....PPSSRRRRRHQPCSPSEL 117

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2589679 seqs, 457216429 residues

Total number of hits satisfying chosen parameters: 2589679

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_8.*
1: Geneseqp1980s.*
2: Geneseqp1990s.*
3: Geneseqp2000s.*
4: Geneseqp2001s.*
5: Geneseqp2002s.*
6: Geneseqp2003as.*
7: Geneseqp2003bs.*
8: Geneseqp2004s.*
9: Geneseqp2005s.*
10: Geneseqp2006s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	605.5	97.7	116	ADY78074	Ady78074 Human ghr
2	198	31.9	60	ADK66754	Adk66754 Human ghr
3	198	31.9	91	Aae33410	Aae33410 Human exo
4	198	31.9	117	Aaw87991	Aaw87991 Protein d
5	198	31.9	117	Aay87236	Aay87236 Human sig
6	198	31.9	117	Aab20101	Aab20101 Zsig33 pr
7	198	31.9	117	Aab62649	Aab62649 Human zsi
8	198	31.9	117	Aam38890	Aam38890 Human pol
9	198	31.9	117	Aab60511	Aab60511 Human ghr
10	198	31.9	117	Abb78319	Abb78319 Amino aci
11	198	31.9	117	Aae21838	Aae21838 Human zsi
12	198	31.9	117	Aae15883	Aae15883 Human zsi
13	198	31.9	117	Abu58046	Abu58046 Human PRO
14	198	31.9	117	Abu59124	Abu59124 Novel hum
15	198	31.9	117	Abu82636	Abu82636 Human sec
16	198	31.9	117	Abu17836	Abu17836 Novel hum
17	198	31.9	117	Abu60555	Abu60555 Human sec
18	198	31.9	117	Abu13937	Abu13937 Human PRO
19	198	31.9	117	Abu81090	Abu81090 Human PRO
20	198	31.9	117	Abu72522	Abu72522 Novel hum
21	198	31.9	117	Abu66790	Abu66790 Human PRO
22	198	31.9	117	Abu59871	Abu59871 Novel sec
23	198	31.9	117	Abu59271	Abu59271 Human sec

24	198	31.9	117	6	ABO25968	Human PRO
25	198	31.9	117	6	ABO25061	Human sec
26	198	31.9	117	6	ABU58977	Human sec
27	198	31.9	117	6	ABU92355	Novel hum
28	198	31.9	117	6	AAE33409	Human pre
29	198	31.9	117	6	ABU59420	Novel hum
30	198	31.9	117	6	ABU67066	Human sec
31	198	31.9	117	6	ABU92186	Novel hum
32	198	31.9	117	6	ABU10892	Human PRO
33	198	31.9	117	6	ABU81644	Novel hum
34	198	31.9	117	6	ABU88583	Human sec
35	198	31.9	117	6	ABO34097	Human PRO
36	198	31.9	117	6	ADA45961	Novel hum
37	198	31.9	117	6	ADA76392	Human PRO
38	198	31.9	117	6	ADA19042	Human PRO
39	198	31.9	117	6	ADA61665	Homo sapi
40	198	31.9	117	6	ADB19450	Novel hum
41	198	31.9	117	6	ADB27991	Human PRO
42	198	31.9	117	6	ADA86470	Novel hum
43	198	31.9	117	6	ADB16034	Human PRO
44	198	31.9	117	6	ADA37779	Human sec
45	198	31.9	117	6	ADA47820	Human PRO

ALIGNMENTS

RESULT 1
ADY78074
ID ADY78074 standard; protein; 116 AA.
XX
AC ADY78074;
XX
DT 02-JUN-2005 (first entry)
XX
DE Human ghrelin variant 2 protein, SEQ ID NO: 32.
XX
KW Diagnosis; obesity; anorectic; nutritional disorder; diabetes;
KW antidiabetic; endocrine disease; metabolic disorder;
KW gastrointestinal disease; drug screening; gene therapy; ghrelin.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Misc-difference 64..65 /note= "Encoded by CATCTCTGG"
XX
XX
PN US2005059015-A1.
XX
PD 17-MAR-2005.

XX 11-SEP-2003; 2003US-00659782.
XX 11-SEP-2003; 2003US-00659782.
XX (MINT/) MINTZ L.
XX Mintz L;
XX WPI: 2005-240894/25.
XX N-PSDB; ADY78053.
XX
XX New isolated nucleic acid and encoded amino acid sequences useful for
XX diagnosing, monitoring and treating obesity and/or diabetes, or in drug
XX screening purposes.
XX
XX Claim 32; SEQ ID NO 32; 74pp; English.
XX
XX The invention relates to alternative splice variants of the obesity
XX and/or diabetes related genes and their corresponding proteins. The
XX invention also relates to compositions, reagents, kits and methods for
XX diagnosing, monitoring and treating obesity and/or diabetes. The
XX composition and methods are useful for diagnosing, monitoring and

CC treating obesity and/or diabetes. These may also be used in drug
 CC screening purposes and in gene therapy. The present sequence is the human
 CC ghrelin (GRL) variant protein. This protein is encoded by an obesity and
 CC diabetes related gene.
 XX
 SQ Sequence 116 AA;

Query Match 97.7%; Score 605.5; DB 9; Length 116;
 Best Local Similarity 99.1%; Pred. No. 8.7e-61;
 Matches 116; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 QY 1 MPSPTVCSSLLGLMLDLAMAGSSFLSPHQVQVRPPHAPVFPALFSLNQLCDLE 60
 DB 1 MPSPTVCSSLLGLMLDLAMAGSSFLSPHQVQVRPPHAPVFPALFSLNQLCDLE 60
 QY 61 QQRHLWASVFSQSTKDSGDLTVSGRTWGLRVNLNLPSPSRERSRRSHQSPSEL 117
 DB 61 QQRH-WASVFSQSTKDSGDLTVSGRTWGLRVNLNLPSPSRERSRRSHQSPSEL 116

RESULT 2
 ADK66754
 ID ADK66754 standard; protein; 60 AA.
 AC ADK66754;
 DT 06-MAY-2004 (first entry)
 XX Human ghrelin protein #1.
 DE Growth; appetite; fatness; genotype; polymorphism; ghrelin protein;
 KW breeding; human.
 KW Homo sapiens.
 OS
 PN US2003211512-A1.
 XX 13-NOV-2003.
 XX 14-NOV-2002; 2002US-00294191.
 XX 14-NOV-2001; 2001US-0333222P.
 XX (ROTH/) ROTHCHILD M F.
 PA (KIMK/) KIM K.
 PA (ANDE/) ANDERSON L L.
 XX Rothschild MF, Kim K, Anderson LL;
 PI WPI; 2004-010667/01.
 DR Screening animals (i.e. pigs) to determine those more likely to produce
 PT desired growth, appetite and fatness to optimize breeding and selection
 PT techniques comprises detecting the presence of a polymorphism in the
 PT Ghrelin gene.
 XX
 PS Disclosure; SEQ ID NO 3; 24pp; English.
 XX

CC The present invention relates to a method of screening animals to
 CC determine those more likely to produce desired growth, appetite and
 CC fatness which involves obtaining a sample of genetic material from the
 CC animal and assaying for the presence of a genotype in the animal which is
 CC associated with favourable growth, appetite and fatness, the genotype
 CC characterised by a polymorphism in the ghrelin gene. The composition and
 CC methods are useful in screening animals (i.e. pigs) to determine those
 CC more or less likely to produce desired growth, appetite and fatness to
 CC optimise breeding and selection techniques. The present sequence is human
 CC ghrelin protein of the invention.
 XX
 SQ Sequence 60 AA;

Query Match 31.9%; Score 198; DB 8; Length 60;
 Best Local Similarity 88.6%; Pred. No. 1.2e-14;

Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 QY 1 MPSPTVCSSLLGLMLDLAMAGSSFLSPHQVQVRPPHAP 44
 DB 1 MPSPTVCSSLLGLMLDLAMAGSSFLSPHQVQVRPPHAP 44

RESULT 3
 AAE33410
 ID AAE33410 standard; protein; 91 AA.
 XX AAE33410;
 DT 02-APR-2003 (first entry)
 XX Human exon 3-deleted ghrelin protein.
 DE Ghrelin; preproghrelin; GHS-R 1b; benign prostatic hyperplasia; therapy;
 KW breast; cervical; uterine; choriocarcinoma; prostate; ovary; cytostatic;
 KW cancer; human.
 XX Homo sapiens.
 OS WO200290387-A1.
 PN 14-NOV-2002.
 PD 10-MAY-2002; 2002WO-AU0000582.
 XX 10-MAY-2001; 2001AU-00004919.
 PR 17-DEC-2001; 2001AU-00009567.
 XX (UYQU-) UNIV QUEENSLAND TECHNOLOGY.
 PA Chopin LK, Jeffery PL, Herington AC;
 PI WPI; 2003-111957/10.
 DR N-PSDB; AAD50726.
 XX Identifying a cancer cell or tissue for treating prostate, ovarian,
 PT breast cancer, or benign prostatic hyperplasia, by detecting the
 PT expression of a ghrelin, an exon-3 deleted preproghrelin and/or a GHS-R
 PT 1b proteins or nucleic acids.
 XX Claim 14; Page 34; 50pp; English.
 XX The invention relates to a method for identifying a cancer cell or tissue
 CC of the reproductive system by detecting expression of a ghrelin, an exon-
 CC 3 deleted preproghrelin and/or a GHS-R 1b proteins or nucleic acids. The
 CC antibodies, exon 3-deleted form of preproghrelin and antagonists are
 CC useful for treating cancer of the reproductive system such as prostate,
 CC ovarian, breast, cervical or uterine cancer, choriocarcinoma or benign
 CC prostatic hyperplasia. The present sequence is human exon 3-deleted
 CC ghrelin protein
 XX

Sequence 91 AA;
 Query Match 31.9%; Score 198; DB 6; Length 91;
 Best Local Similarity 88.6%; Pred. No. 2.1e-14;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 QY 1 MPSPTVCSSLLGLMLDLAMAGSSFLSPHQVQVRPPHAP 44
 DB 1 MPSPTVCSSLLGLMLDLAMAGSSFLSPHQVQVRPPHAP 44

RESULT 4
 AAW87991
 ID AAW87991 standard; protein; 117 AA.
 XX AAW87991;
 DT 07-APR-1999 (first entry)

XX DE Protein designated zsig33.
 XX KW zsig33; gastric motility; gastrointestinal inflammation; reflux disease;
 KW nutrient absorption regulation; obesity; metabolic disorder.
 XX OS Homo sapiens.
 XX FH Key Location/Qualifiers
 FT Peptide 1..23 /note= "signal peptide"
 FT Protein 24..117 /note= "mature protein"
 XX WO9842840-A1.
 XX PD 01-OCT-1998.
 XX PF 23-MAR-1998; 98WO-US005620.
 XX PR 24-MAR-1997; 97US-0041102P.
 XX PR 24-MAR-1997; 97US-00822897.
 XX (ZYMO) ZYMOGENETICS INC.
 XX PI Sheppard PO, Deisher TA;
 XX WPI; 1999-070071/06.
 XX N-PSDB; AAX04550.
 XX Human polypeptide having homology to motilin, zsig33 - useful e.g. to
 PT treat gastrointestinal motility disorders, obesity etc. and to identify
 PT antagonists to treat gastrointestinal hypermotility.
 XX PS Claim 13; Page 55-56; 69pp; English.
 XX The present sequence represents a protein designated Zsig33. The nucleic
 CC acids are strongly expressed in stomach tissue. The polypeptide (or
 CC allelic variants/orthologs) can be used to stimulate gastric motility,
 CC measured as increased transit time or gastric emptying of an ingested
 CC substance in mammals. The products are used to treat disorders associated
 CC with gastrointestinal cell contractility, secretion of digestive
 CC enzymes/acids, gastrointestinal cell contractility, recruitment of digestive
 CC enzymes, gastrointestinal inflammation, reflux disease and nutrient
 CC absorption regulation. Zsig33 polypeptides may also be important
 CC neurologically, since the family of gut-brain peptides to which the
 CC homologous protein motilin belongs has been associated with neurological
 CC and CNS functions. They may therefore be used e.g. to regulate satiety or
 CC treat obesity and other metabolic disorders where neurological feedback
 CC modulates nutritional absorption. They are useful to identify zsig33
 CC agonists, antagonists and ligands and to produce antibodies
 XX SQ Sequence 117 AA;
 Query Match 31.9%; Score 198; DB 2; Length 117;
 Best Local Similarity 88.6%; Pred. No. 3e-14; Mismatches 0; Gaps 0;
 Matches 39; Conservative 0; Indels 5; Indels 0; Gaps 0;
 QY 1 MSPSGTVCSSLLLLGLMLWLDLAWAGSFLSPHQRVQVRPPHPKAP 44
 DB 1 MSPSGTVCSSLLLLGLMLWLDLAWAGSFLSPHQRVQVRPPHPKAP 44
 RESULT 5
 AAY87236
 ID AAY87236 standard; protein; 117 AA.
 XX AC AAY87236;
 XX 11-MAY-2000 (first entry)
 XX Human signal peptide containing protein HSP-13 SEQ ID NO:13.
 XX

KW Human; signal peptide-containing protein; HSP: diagnosis; cancer;
 KW inflammation; cardiovascular disease; anticancer; anti-inflammatory;
 KW antimicrobial; nontropic; neuroprotective; cardiovascular; hepatotropic;
 KW antiasthmatic; gene therapy; cell proliferation; neurological disorder;
 KW reproductive disorder; developmental disorder; arteriosclerosis;
 KW cirrhosis; psoriasis; acquired immune deficiency syndrome; anaemia;
 KW asthma; Crohn's disease; infection; Alzheimer's disease; schizophrenia;
 KW Parkinson's disease; Huntington's diseases; ovulatory defect;
 KW muscular dystrophy.
 XX OS Homo sapiens.
 XX PN WO200000610-A2.
 XX PD 06-JAN-2000.
 XX PF 25-JUN-1999; 99WO-US014484.
 XX PR 26-JUN-1998; 98US-0090762P.
 XX PR 31-JUL-1998; 98US-0094983P.
 XX PR 01-OCT-1998; 98US-0102686P.
 XX PR 11-DEC-1998; 98US-0112129P.
 XX (INCY-) INCYTE PHARM INC.
 XX Lal P, Tang YT, Gorgone GA, Corley NC, Guegler KJ, Baughn MR;
 PI Akerblom IE, Au-Young J, Yue H, Patterson C, Reddy R, Hillman JL;
 PI Bandman O;
 XX WPI; 2000-160673/14.
 XX N-PSDB; AAZ98121.
 XX New human signal peptide-containing proteins useful in treatment,
 PT prevention and diagnosis of e.g. cancer, inflammation and cardiovascular
 PT disease.
 XX Claim 1; Page 168-169; 327pp; English.
 XX AAZ98109 to AAZ98242 encode AAY87224 to AAY87357 which represent the
 CC human signal peptide-containing proteins HSP-1 to HSP-134. HSPs have
 CC anticancer, anti-inflammatory, antimicrobial, nontropic, hepatotropic,
 CC neuroprotective, cardiovascular and antiasthmatic activities, and can be
 CC used in gene therapy. HSPs can be used to treat or prevent disorders
 CC associated with decreased activity or function of HSP. Antagonists of
 CC HSP are used to treat or prevent disorders associated with increased
 CC activity or function of HSP. Such disorders include cell proliferation
 CC (including cancer), inflammation, cardiovascular, neurological,
 CC reproductive or developmental disorders, (e.g. arteriosclerosis,
 CC cirrhosis, psoriasis, acquired immune deficiency syndrome, anaemia,
 CC asthma, Crohn's disease, Alzheimer's, Parkinson's or Huntington's
 CC ischaemic heart disease, muscular defects, muscular dystrophy). HSP
 CC diseases, schizophrenia, ovulatory defects, congenital defects or
 CC detecting HSP in standard hybridisation and amplification assays (for
 CC nucleic acids can be used for the recombinant production of HSP, for
 CC diagnosis and monitoring), in gene therapy, as antisense, triplex-forming
 CC or ribozyme therapeutics, for detecting related sequences or genetic
 CC variations, and for chromosomal mapping. HSP are also used to raise
 CC specific antibodies (Ab) and to screen for agonists and antagonists
 CC (potential therapeutic agents). Ab are used to diagnose, or monitor, HSP
 CC -related diseases (in usual immunoassays), as therapeutic antagonists, in
 CC competitive drug screens, and for purification of HSP from natural
 CC sources
 XX SQ Sequence 117 AA;
 Query Match 31.9%; Score 198; DB 3; Length 117;
 Best Local Similarity 88.6%; Pred. No. 3e-14;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 QY 1 MSPSGTVCSSLLLLGLMLWLDLAWAGSFLSPHQRVQVRPPHPKAP 44
 DB 1 MSPSGTVCSSLLLLGLMLWLDLAWAGSFLSPHQRVQVRPPHPKAP 44

```
RESULT 6
AAB20101
ID AAB20101 standard; protein; 117 AA.
XX
AC AAB20101;
XX
DT 23-APR-2001 (first entry)
XX
DE Zsig33 protein.
XX
KW SGIP; zsig33; anorectic; antidiabetic; somatotropin; somatomedin-C;
KW nutritional absorption modulator; growth hormone secretagogue; therapy;
KW - human.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..23
FT /label= Signal_peptide
FT Protein 24..117
FT /label= Mature_protein
FT Peptide 24..34
FT /label= SGIP_peptide
FT /note= "this peptide is claimed in Claim 1"
XX
PN WO200100830-A1.
XX
PD 04-JAN-2001.
XX
PF 30-JUN-2000; 2000WO-US018306.
XX
PR 30-JUN-1999; 99US-00345157.
XX
PA (ZYMO ) ZYMOGENETICS INC.
XX
PI Sheppard PO, Jaspers SR, Deisher TA, Bishop PD;
XX
DR WPI; 2001-123010/13.
DR N-PSDB; AAF30033.
XX
XX Novel variants of SGIP peptides for modulating contractility in duodenum
PT or jejunum tissue, pancreatic secretion of hormones and digestive
PT enzymes, inducing growth hormone secretion or modulating gastric
PT emptying.
XX
PS Disclosure; 54; 61pp; English.
XX
CC The present sequence is that of zsig33, a secreted protein with homology
CC to motilin (see AAB20102). Zsig33 is expressed at high levels in the
CC stomach, and at lower levels in the small intestine and pancreas. A novel
CC peptide fragment of zsig33, termed SGIP (see AAB20100), is claimed. SGIP
CC is a ligand for growth hormone secretagogue receptor, and is therefore
CC useful for modulating secretion of growth hormone and insulin like growth
CC factor 1. SGIP, and variant SGIP peptides, are used in claimed methods
CC for stimulating contractility in duodenum or jejunum tissue, modulating
CC pancreatic secretion of hormones and digestive enzymes, inducing growth
CC hormone secretion, and modulating gastric emptying
XX
SQ Sequence 117 AA;
Query Match 31.9%; Score 198; DB 4; Length 117;
Best Local Similarity 88.6%; Pred. No. 3e-14;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 MPSPGTVCSSLLLLGMLDLAMAGSSFLSPHQVQVRPPHPKAP 44
DB 1 MPSPGTVCSSLLLLGMLDLAMAGSSFLSPHQVQVRPPHPKAP 44
RESULT 7
AAB62649
ID AAB62649 standard; protein; 117 AA.
XX
AC AAB62649;
XX
DT 23-JUL-2001 (first entry)
XX
DE Human zsig33 polypeptide.
XX
KW zsig33; signal transduction; hormone; enzyme; neural development;
KW gastric contractility; nutrient uptake; digestive; pancreatic; human;
KW insulin-like growth factor-I; growth hormone; bone; gastrointestinal;
KW glucose; osteopathic; anorectic; vulnery; immunomodulator; GHS-R;
KW G-protein coupled receptor.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 24..37
FT /note= "specifically claimed fragment that binds to the
FT GHS-R"
XX
PN WO200138355-A2.
XX
PD 31-MAY-2001.
XX
PF 22-NOV-2000; 2000WO-US032074.
XX
PR 22-NOV-1999; 99US-0166765P.
XX
PA (ZYMO ) ZYMOGENETICS INC.
XX
PI Sheppard PO, Jaspers SR, Deisher TA, Bishop PD;
XX
DR WPI; 2001-355879/37.
DR N-PSDB; AAF83678.
XX
XX Forming reversible peptide receptor complex for purifying cell and
PT peptides, stimulating signal transduction and modulating hormone
PT secretion, involves contacting a receptor with zsig33 polypeptide.
XX
PS Claim 1; Page 93-94; 111pp; English.
XX
CC The invention relates to a method of forming a reversible peptide-
CC receptor complex that involves providing an immobilized receptor, and
CC contacting the receptor with a zsig33 peptide (comprising residues 24-37
CC of AAB62649), where the receptor binds to the zsig33 peptide. The method
CC is useful for purifying cells, purifying a peptide, stimulating signal
CC transduction in a cell expressing a receptor. It is also useful for
CC modulating secretion of hormones, neural development and/or utilization,
CC gastric contractility, nutrient uptake, secretion of digestive and
CC pancreatic enzymes and hormones, secretion of insulin-like growth factor
CC -I, secretion of non-zsig33 proteins. It is useful for modulating growth
CC hormone secretion in a mammal having a disease associated with abnormal
CC levels of growth hormone, such as osteoporosis, bone repair, bone
CC remodeling, low osteoblast levels, cartilage repair and remodeling,
CC skeletal dysplasia, immune suppression, obesity, growth retardation,
CC protein catabolic responses after surgery, cachexia, protein loss,
CC dwarfism, wound healing and ovulation induction, treating a mammal having
CC a metabolic disorder requiring neurological feedback, such as satiety
CC regulation, glucose absorption and metabolism and neuropathy-associated
CC gastrointestinal disorders, and stimulating glucose-induced insulin
CC release in a mammal. The present sequence represents the human zsig33
CC polypeptide, a peptide ligand for the G-protein coupled receptor, GHS-R
XX
SQ Sequence 117 AA;
Query Match 31.9%; Score 198; DB 4; Length 117;
Best Local Similarity 88.6%; Pred. No. 3e-14;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 MPSPGTVCSSLLLLGMLDLAMAGSSFLSPHQVQVRPPHPKAP 44
DB 1 MPSPGTVCSSLLLLGMLDLAMAGSSFLSPHQVQVRPPHPKAP 44
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RESULT 8
AAM38890
ID AAM38890 standard; protein; 117 AA.
XX
XX AAM38890;
XX
XX 22-OCT-2001 (first entry)
XX
XX Human polypeptide SEQ ID NO 2035.
XX
XX Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
KW peripheral nervous system; neuropathy; central nervous system; CNS;
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
KW leukaemia.
XX
XX Homo sapiens.
XX
XX WO2000153312-A1.
XX
XX 26-JUL-2001.
XX
XX 26-DEC-2000; 2000WO-US034263.
XX
XX 23-DEC-1999; 99US-00471275.
XX
XX 21-JAN-2000; 2000US-00488725.
XX
XX 25-APR-2000; 2000US-00552317.
XX
XX 20-JUN-2000; 2000US-00598042.
XX
XX 19-JUL-2000; 2000US-00620312.
XX
XX 03-AUG-2000; 2000US-00653450.
XX
XX 14-SEP-2000; 2000US-00662191.
XX
XX 19-OCT-2000; 2000US-00693036.
XX
XX 29-NOV-2000; 2000US-00727344.
XX
XX (HYSE-) HYSEQ INC.
XX
XX Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
XX Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J, Zhao QA;
XX Zhou P, Goodrich R, Drmanac RT;
XX
XX WPI; 2001-442253/47.
XX
XX N-PSDB; AAI58046.
XX
XX Novel nucleic acids and polypeptides, useful for treating disorders such
XX as central nervous system injuries.
XX
XX Example 3; SEQ ID NO 2035; 10078pp; English.
XX
XX The invention relates to human nucleic acids (AAI57798-AAI61369) and the
XX encoded polypeptides (AAM38642-AAM42213) with nootropic,
XX immunosuppressant and cytostatic activity. The polynucleotides are useful
XX in gene therapy. A composition containing a polypeptide or polynucleotide
XX of the invention may be used to treat diseases of the peripheral nervous
XX system, such as peripheral nervous injuries, peripheral neuropathy and
XX localised neuropathies and central nervous system diseases, such as
XX Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
XX lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
XX utilisation of the activities such as: Immune system suppression,
XX Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
XX and thrombolytic activity, cancer diagnosis and therapy, drug screening,
XX assays for receptor activity, arthritis and inflammation, leukaemias and
XX C.N.S disorders. Note: The sequence data for this patent did not form
XX part of the printed specification
XX
XX Sequence 117 AA;
XX
XX Query Match 31.9%; Score 198; DB 4; Length 117;
XX Best Local Similarity 88.6%; Pred. No. 3e-14;
XX Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
XX
XX 1 MPSPTVCSLLLLGLMLDLAMAGSSFLSPHQVQVRPPHKAP 44
QY

RESULT 9
AAB60511
ID AAB60511 standard; protein; 117 AA.
XX
XX AAB60511;
XX
XX 24-APR-2001 (first entry)
XX
XX Human ghrelin preproprotein, SEQ ID NO:5.
XX
XX Growth hormone secretagogue; GHS; ghrelin; precursor; preproprotein;
KW calcium concentration elevation; infant growth disorder;
KW growth hormone deficiency.
XX
XX Homo sapiens.
XX
XX WO2000107475-A1.
XX
XX 01-FEB-2001.
XX
XX 24-JUL-2000; 2000WO-JP004907.
XX
XX 23-JUL-1999; 99JP-00210002.
XX
XX 29-NOV-1999; 99JP-00338841.
XX
XX 26-APR-2000; 2000JP-00126623.
XX
XX (KANG/) KANGAWA K.
XX
XX Kangawa K, Kojima M, Hosoda H, Matsuo H, Minamitake Y;
XX WPI; 2001-159704/16.
XX
XX N-PSDB; AAF59645.
XX
XX New peptide compounds which induce growth hormone secretion and elevate
XX cell calcium concentrations, useful in treatment and diagnosis of infant
XX growth disorders.
XX
XX Claim 3; Page 182; 210pp; Japanese.
XX
XX The invention relates to a novel peptide compound or its salt which
XX induces the secretion of growth hormone and/or elevates calcium ion
XX concentration in cells. The peptides are ghrelin homologues and are
XX characterised in that at least one amino acid has been substituted by a
XX modified amino acid and/or a non-amino acid compound. The invention also
XX encompasses the unmodified peptides; the DNA encoding the peptides;
XX vectors and host cells comprising such DNA; a method of producing the
XX peptides comprising recombinant production, optionally followed by
XX chemical modification; an antibody specific for a peptide of the
XX invention; and an assay and kit for detecting the peptides. The peptides
XX of the invention are useful for treating and/or diagnosing diseases
XX caused by a deficiency in growth hormone expression or activity. In
XX particular, they are useful for promoting infant growth due to growth
XX hormone deficiency. The compounds of the invention are safe with no
XX accompanying side effects. The present sequence represents a ghrelin-type
XX growth hormone secretagogue (GHS) precursor protein of the invention
XX
XX Sequence 117 AA;
XX
XX Query Match 31.9%; Score 198; DB 4; Length 117;
XX Best Local Similarity 88.6%; Pred. No. 3e-14;
XX Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
XX
XX 1 MPSPTVCSLLLLGLMLDLAMAGSSFLSPHQVQVRPPHKAP 44
QY

RESULT 10
ABB78319
QY
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XX	RESULT 13	
XX	ABU58046	
ID	ABU58046 standard; protein; 117 AA.	
XX	AC	
XX	ABU58046;	
XX	AC	
DT	14-APR-2003 (first entry)	
XX	DE	
XX	Human PRO polypeptide #78.	
XX	Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;	
KW	horse; cow; dog; cat; sheep; pig; goat; rabbit; ADPPT;	
KW	antibody-dependent enzyme mediated prodrug therapy.	
XX	XX	
OS	Homo sapiens.	
XX	US2003027163-A1.	
PN	06-FEB-2003.	
PD		
XX	15-NOV-2001; 2001US-00997666.	
XX	16-JUN-1997;	97US-0049787P.
PR	17-OCT-1997;	97US-0062250P.
PR	05-NOV-1997;	97WO-US020069.
PR	12-NOV-1997;	97US-0065186P.
PR	13-NOV-1997;	97US-0065311P.
PR	24-NOV-1997;	97US-0066770P.
PR	25-FEB-1998;	98US-0075945P.
PR	20-MAR-1998;	98US-0078910P.
PR	28-APR-1998;	98US-0083322P.
PR	07-MAY-1998;	98US-0084600P.
PR	28-MAY-1998;	98US-0087106P.
PR	02-JUN-1998;	98US-0087607P.
PR	02-JUN-1998;	98US-0087609P.
PR	02-JUN-1998;	98US-0087759P.
PR	03-JUN-1998;	98US-0087827P.
PR	04-JUN-1998;	98US-0088021P.
PR	04-JUN-1998;	98US-0088025P.
PR	04-JUN-1998;	98US-0088028P.
PR	04-JUN-1998;	98US-0088029P.
PR	04-JUN-1998;	98US-0088030P.
PR	04-JUN-1998;	98US-0088033P.
PR	04-JUN-1998;	98US-0088326P.
PR	05-JUN-1998;	98US-0088167P.
PR	05-JUN-1998;	98US-0088202P.
PR	05-JUN-1998;	98US-0088212P.
PR	05-JUN-1998;	98US-0088217P.
PR	09-JUN-1998;	98US-0088655P.
PR	10-JUN-1998;	98US-0088734P.
PR	10-JUN-1998;	98US-0088738P.
PR	10-JUN-1998;	98US-0088742P.
PR	10-JUN-1998;	98US-0088810P.
PR	10-JUN-1998;	98US-0088824P.
PR	10-JUN-1998;	98US-0088826P.
PR	11-JUN-1998;	98US-0088850P.
PR	11-JUN-1998;	98US-0088861P.
PR	11-JUN-1998;	98US-0088876P.
PR	12-JUN-1998;	98US-0089105P.
PR	16-JUN-1998;	98US-0089440P.
PR	16-JUN-1998;	98US-0089512P.
PR	16-JUN-1998;	98US-0089514P.
PR	17-JUN-1998;	98US-0089532P.
PR	17-JUN-1998;	98US-0089538P.
PR	17-JUN-1998;	98US-0089598P.
PR	17-JUN-1998;	98US-0089599P.
PR	17-JUN-1998;	98US-0089600P.
PR	17-JUN-1998;	98US-0089653P.
PR	18-JUN-1998;	98US-0089801P.
PR	18-JUN-1998;	98US-0089907P.

XX 28-APR-2003 (first entry)
XX DE Novel human secreted or transmembrane protein PRO1066.
XX KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
KW cardiac insufficiency disorder; cancer; tumour; immune response;
KW adrenal cortical capillary endothelial growth; c-fos induction;
KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosa; kidney disorder;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW dermatitis; herpesiformis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis.
XX OS Homo sapiens.
XX PN US2002132252-A1.
XX PD 19-SEP-2002.
XX 14-NOV-2001; 2001US-00990442.
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083222P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
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PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.

PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 02-MAR-2000; 2000WO-US005044.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.

(GETH) GENENTECH INC.

PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;

XX WPI: 2003-247083/24.
XX N-PSDB; ABX80294.

PT Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
PT are therapeutically useful for enhancing immune response and in cancer
PT treatments.

XX Claim 12; Fig 186; 648pp; English.

XX The invention describes an isolated human PRO polypeptide. The PRO
XX polypeptides are useful in detecting PRO polypeptides in a sample, in
XX linking a bioactive molecule to a cell expressing a PRO polypeptide, and
XX in modulating at least one biological activity of a cell expressing a PRO
XX polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
XX useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
XX stimulate adrenal cortical capillary endothelial growth, and PRO536,
XX PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
XX PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
XX useful for treating conditions or disorders where angiogenesis would be

CC beneficial, e.g. wound healing and antagonist of this polypeptide are
CC useful for treating cancerous tumours. PRO812 inhibits vascular
CC endothelial growth factor (VEGF) stimulated proliferation of endothelial
CC cells and is thus useful for inhibiting endothelial cell growth in
CC mammals which would be beneficial in inhibiting tumour growth. PRO826,
CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
CC stimulated T-lymphocytes and are therapeutically useful for enhancing
CC immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of
CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
CC rod photoreceptor cells) and therefore are useful for treating retinal
CC disorders of injuries, e.g. retinitis pigmentosum, AMD. PRO819, PRO813
CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,
CC and therefore are useful for treating kidney disorders associated with
CC decreased mesangial cell function such as Berger disease or other
CC nephropathies associated with dermatitis, herpetiformis or Crohn's
CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
CC proliferation and/or redifferentiation of chondrocytes in culture and are
CC thus useful for treating sports injuries, and arthritis. This is the
CC amino acid sequence of a novel human PRO protein

XX Sequence 117 AA;

Query Match 31.9%; Score 198; DB 6; Length 117;

Best Local Similarity 88.6%; Pred. No. 3e-14;

Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MPSPGTCVCSLLLLGLMLDLWDLWAGSSFLSPSHQVQVRPPHKAP 44

Db 1 MPSPGTCVCSLLLLGLMLDLWDLWAGSSFLSPSHQVQVRPPHKAP 44

RESULT 15

ABU82636

ID ABU82636 standard; protein; 117 AA.

XX AC ABU82636;

XX 26-JUN-2003 (first entry)

DE Human secreted/transmembrane protein PRO1066.

XX Human; PRO; secreted protein; transmembrane protein;
KW cardiac insufficiency disorders; angiogenesis; wound healing;
KW cancerous tumour; immune response; retinal disorder; sight loss;
KW retinitis pigmentosum; age-related macular degeneration; AMD;
KW kidney disorder; Berger disease; nephropathy; dermatitis; herpetiformis;
KW Crohn's disease; sports injury; arthritis.

XX Homo sapiens.

XX US2003032023-A1.

XX 13-FEB-2003.

XX 14-NOV-2001; 2001US-00990711.

XX 16-JUN-1997; 97US-0049787P.

XX 17-OCT-1997; 97US-0062250P.

XX 05-NOV-1997; 97WO-US020069.

XX 12-NOV-1997; 97US-0065186P.

XX 13-NOV-1997; 97US-0065311P.

XX 24-NOV-1997; 97US-0066770P.

XX 25-FEB-1998; 98US-0075945P.

XX 20-MAR-1998; 98US-0078910P.

XX 28-APR-1998; 98US-0083322P.

XX 07-MAY-1998; 98US-0084600P.

XX 28-MAY-1998; 98US-0087106P.

XX 02-JUN-1998; 98US-0087607P.

XX 02-JUN-1998; 98US-0087609P.

XX 03-JUN-1998; 98US-0087759P.

XX 02-JUN-1998; 98US-0087827P.

XX 04-JUN-1998; 98US-0088021P.

XX 04-JUN-1998; 98US-0088025P.

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PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
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PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
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PR 19-JUN-1998; 98US-0089947P.
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PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 23-JUN-1998; 98US-0090349P.
PR 23-JUN-1998; 98US-0090355P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090431P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
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PR 25-JUN-1998; 98US-0090557P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091360P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091519P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091633P.
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PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093339P.

PR	24-FEB-2000;	200OWO-US005004.
PR	02-MAR-2000;	200OWO-US005841.
PR	10-MAR-2000;	200OWO-US006319.
PR	15-MAR-2000;	200OWO-US006884.
PR	20-MAR-2000;	200OWO-US007377.
PR	30-MAR-2000;	200OWO-US008439.
PR	15-MAY-2000;	200OWO-US013358.
PR	17-MAY-2000;	200OWO-US013705.
PR	22-MAY-2000;	200OWO-US014042.
PR	30-MAY-2000;	200OWO-US014941.
PR	02-JUN-2000;	200OWO-US015264.
PR	23-JUN-2000;	200OJS-0213637P.
PR	28-JUL-2000;	200OWO-US020710.
PR	11-AUG-2000;	200OWO-US020231.

QY	1	MPSPGTVCSLLLLGMLWLDL	AMAGSSFLS	PEHQRVQVRPPH	KAP	44
Db	1	MPSPGTVCSLLLLGMLWLDL	AMAGSSFLS	PEHQRVQVRPPH	KAP	44

Search completed: July 11, 2006, 17:00:15
Job time : 196 secs

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GenCore version 5.1.1.9
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OM protein - protein search, using sw model

Run on: July 11, 2006, 17:00:33 ; Search time 39 Seconds
(without alignments)
288.650 Million cell updates/sec

Title: US-10-659-782B-32
Perfect score: 620
Sequence: 1 MPSPTVCSLLLLGLMLDL.....PPSSRRRRSHQSPCSPEL 117

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

PIR 80: *
1: PIR1: *
2: PIR2: *
3: PIR3: *
4: PIR4: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	198	31.9	117	1 A59316	ghrelin precursor
2	158	25.5	117	1 B59316	ghrelin precursor
3	78	12.6	136	2 AG0449	regulator of nucle
4	73.5	11.9	2018	2 T34274	hypothetical prote
5	73	11.8	573	2 JC4335	anti-mullerian hor
6	73	11.8	725	1 E64211	virulence-associat
7	72.5	11.7	555	2 H83043	hypothetical prote
8	72	11.6	666	2 T22943	hypothetical prote
9	71.5	11.5	764	2 I48882	thyrotropin recept
10	70.5	11.4	309	2 S77905	lyase - Pseudomona
11	70.5	11.4	383	2 A56084	interleukin-beta
12	69	11.1	302	2 H96792	unknown protein Fl
13	69	11.1	1487	2 S62048	probable membrane
14	68	11.0	796	2 T32425	hypothetical prote
15	68	11.0	1474	2 B85188	retrotransposon li
16	68	11.0	2088	2 E71436	hypothetical prote
17	67.5	10.9	764	2 A35956	hypothetical recept
18	67	10.8	187	2 T51876	hypothetical prote
19	67	10.8	363	2 F91265	sensor protein Bas
20	67	10.8	363	2 C86106	sensor protein for
21	67	10.8	363	2 JX0285	sensor protein bas
22	67	10.8	449	2 C39926	hypothetical 51.9K
23	67	10.8	519	2 G84707	probable MYB famil
24	66.5	10.7	263	2 C56084	interleukin-beta
25	66.5	10.7	311	2 B56084	interleukin-beta
26	66.5	10.7	749	2 A75560	conserved hypothet
27	66	10.6	428	2 JH0634	site-specific DNA-
28	66	10.6	1001	2 T28897	hypothetical prote
29	65.5	10.6	304	2 S25080	bifunctional cycla

30	65.5	10.6	307	2 T33503	hypothetical prote
31	65	10.5	1027	2 B64187	conserved hypothet
32	64.5	10.4	381	2 S16506	hypothetical prote
33	64.5	10.4	415	2 S32932	regulatory protei
34	64.5	10.4	708	2 A38436	mitosis initiation
35	64	10.3	188	2 T19507	hypothetical prote
36	64	10.3	354	2 G75548	ABC transporter, A
37	64	10.3	467	1 S45493	serine proteinase
38	64	10.3	502	2 T36589	probable transmem
39	64	10.3	540	2 T27400	hypothetical prote
40	64	10.3	637	2 T03842	fission yeast Skb1
41	64	10.3	695	2 T13648	mitosis initiatio
42	64	10.3	749	2 S77175	sensory transducti
43	64	10.3	6805	2 S20901	titin - rabbit (fr
44	63.5	10.2	221	2 A57296	ribosomal protein
45	63.5	10.2	746	2 T19409	hypothetical prote

ALIGNMENTS

RESULT 1

A59316
ghrelin precursor - human
N:Alternate names: preproghrelin
C:Species: Homo sapiens (man)
C>Date: 16-Jun-2000 #sequence_revision 16-Jun-2000 #text_change 09-Jul-2004
C:Accession: A59316
R:Kojima, M.; Hosoda, H.; Date, Y.; Nakazato, M.; Matsuo, H.; Kangawa, K.
Nature 402, 656-660, 1999
A>Title: Ghrelin is a growth-hormone-releasing acylated peptide from stomach.
A:Reference number: A59316; MUID:20067959; PMID:10604470
A:Accession: A59316
A>Status: not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 1-117 <KOJ>
A:Cross-references: UNIPROT:Q9UBJ3; UNIPARC:UPI00000362D3; GB:AB029434; NID:56691571; P
A:Experimental source: tissue stomach endocrine cells
A>Note: submitted to GenBank, June 1999
C:Comment: Ghrelin secreted by the stomach stimulates the release of somatotropin (grow
C:Superfamily: motilin
C:Keywords: hormone; lipoprotein; stomach
F:1-23/Domain: signal sequence #status predicted <SIG>
F:24-51/Product: ghrelin #status predicted <MAT>
F:52-117/Domain: carboxyl-terminal propeptide #status predicted <CTP>
F:26/Binding site: octanoate (Ser) (covalent) #status experimental

Query Match 31.9%; Score 198; DB 1; Length 117;
Best Local Similarity 88.6%; Pred. No. 1.7e-13;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MPSPTVCSLLLLGLMLDLAMAGSFLSPHEQVQVRPPHKAP 44
|||||
DB 1 MPSPTVCSLLLLGLMLDLAMAGSFLSPHEQVQVRPPHKAP 44

RESULT 2

B59316
ghrelin precursor - rat
N:Alternate names: preproghrelin
C:Species: Rattus norvegicus (Norway rat)
C>Date: 16-Jun-2000 #sequence_revision 16-Jun-2000 #text_change 09-Jul-2004
C:Accession: B59316
R:Kojima, M.; Hosoda, H.; Date, Y.; Nakazato, M.; Matsuo, H.; Kangawa, K.
Nature 402, 656-660, 1999
A>Title: Ghrelin is a growth-hormone-releasing acylated peptide from stomach.
A:Reference number: A59316; MUID:20067959; PMID:10604470
A:Accession: B59316
A>Status: not compared with conceptual translation
A:Molecule type: mRNA; protein
A:Residues: 1-117 <KOJ>
A:Cross-references: UNIPROT:Q9QVH7; UNIPARC:UPI000012B411; GB:AB029433; NID:56691569; P
A:Experimental source: strain SD; tissue stomach endocrine cells

A;Note: submitted to GenBank, June 1999
C;Comment: Ghrelin secreted by the stomach stimulates the release of somatotropin (growth hormone) from the pituitary gland.
C;Superfamily: motilin
F;1-23/Domain: signal sequence #status predicted <SIG>
F;14-51/Product: ghrelin #status predicted <MAT>
F;52-117/Domain: carboxyl-terminal propeptide #status predicted <CTP>
F;26/Binding site: octanoate (Ser) (covalent) #status experimental

Query Match 25.5%; Score 158; DB 1; Length 117;
Best Local Similarity 40.0%; Pred. No. 2.5e-09;
Matches 42; Conservative 7; Mismatches 34; Indels 22; Gaps 2;

Qy 1 MPSPGTVCISLLILGMLDLAMAGSSFLSPEHQVQRPPHKAPHVVVPALPLSNQLCDLE 60
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1 MVSSATICSULLLSMLMDMAMAGSSFLSPEHQAQQKSKXP-----PAKLQPRALE 54
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 61 QQRH-----LWASVFQSQTSDSGSLDITVSGRTWG 89
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 55 GWLHPEDRGOAEAEAEELFRFNAPFDVGIKLSGAQYQQHGRLG 99
| | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 3
AG0449
regulator of nucleoside diphosphate kinase rnk [imported] - Versinia pestis (strain CO92)
C;Species: Versinia pestis
C;Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Jul-2004
C;Accession: AG0449
R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, M.B.; de novo-Tarraga, A.M.; Chillingworth, T.; Cronan, A.; Davies, R.M.; Davis, P.; Dougan, G.; del, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrell, Nature 413, 523-527, 2001
A;Title: Genome sequence of Versinia pestis, the causative agent of plague.
A;Reference number: AB0001; MUID:21470413; PMID:11586360
A;Accession: AG0449
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-136 <CUR>
A;Cross-references: UNIPROT:Q8ZAU1; UNIPARC:UPI00000DCABC; GB:AL590842; PIDN:CAC93163.1;
C;Genetics:
A;Gene: rnk

Query Match 12.6%; Score 78; DB 2; Length 136;
Best Local Similarity 26.2%; Pred. No. 0.64;
Matches 28; Conservative 14; Mismatches 39; Indels 26; Gaps 3;

Qy 21 AMAGS----SFLSPBQHVQVRPHKAPHVVVPALPLSNQLCDL-EQSHLWASVFSOSTKD 76
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 24 AFAGSVVATALLNEELDRAEILPPNEIADVVTVMSRVRFDDLNSQEHIHTLYVPASLKD 83
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 77 SGSDLTV-----SGRTWLGLVLNRLPPPS 101
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 84 SNEQLSVMAPIGAALLGHVNDEISWKLPGGDETIRIVLELLYPES 130
| | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 4
T34274
hypothetical protein F46H5.4 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
C;Accession: T34274
R;Nhan, M.
submitted to the EMBL Data Library, November 1995
A;Description: The sequence of C. elegans cosmid F46H5.
A;Reference number: Z21498
A;Accession: T34274
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-2018 <NA>
A;Cross-references: UNIPROT:Q20487; UNIPARC:UPI000008IBEL; EMBL:U41543; PIDN:AAB37023.1;
A;Experimental source: strain Bristol N2; clone F46H5
C;Genetics:
A;Gene: CESP:F46H5.4

```

A;Gene: CESP:F58G11.3
A;Map position: 5
A;Introns: 42/2; 82/2; 153/3; 274/3; 380/1; 569/3; 613/3

Query Match      11.6%; Score 72; DB 2; Length 666;
Best Local Similarity 26.9%; Pred. No. 16;
Matches 32; Conservative 11; Mismatches 42; Indels 34; Gaps 5

Qy 33  QRQVRPEPKAPHVVPALPLSNQLCDLEQQR-HLWASVFSQSTKDSGSD----- 80
      |||: ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 537 QRVRVNEQCVKVVVPVRTLQALAEVRRQREQVEQAFNQPEPSPRLGMGSSHAA 596

Qy 81  LTSVGRTWGURVLNR-----LFPDSS-----RERS-----RSHQPCSPDL 117
      |||: ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 597 SNYSDDGQWGPVQVKVEKSPKPPFTVLLPMSKAGVKIRPRSRVLCHSSASGPPSL 655

```

RESULT 9

thyrotropin receptor precursor - mouse
N;Alternate names: thyroid-stimulating hormone receptor; TSH receptor
C;Species: Mus musculus (house mouse)
C;Date: 15-Mar-1996 #sequence_revision 15-Mar-1996 #text_change 09-Jul-2004
C;Accession: I48882
R;Stein, S.A.; Oates, E.L.; Hall, C.R.; Grumbles, R.M.; Fernandez, L.M.; Taylor
Mol. Endocrinol. 8, 129-138, 1994
A;Title: Identification of a point mutation in the thyrotropin receptor of the
A;Reference number: A5471; MUID:94224232; PMID:8170469

77-1071 F; 201-22

[illegible]

RESULT 10
S77905
C:Species: *Pseudomonas pseudomallei*
C:Species: *Pseudomonas pseudomallei*
C:Date: 21-Apr-1997 #sequence revision 18-Jul-1997 #text_change 09-Jul-2004
C:Accession: S77905; S6445, S6446
R:Penalzoa-Varquez, A.; Mena, G.L.; Herrera-Estrella, L.; Bailey, A.M.
Appl. Environ. Microbiol. 61, 538-543, 1995
A:Title: Cloning and sequencing of the genes involved in glyophosphate utilization
A:Reference number: S77905; MUID:56031567; PMID:7574593
A:Accession: S77905
A:Molecule type: DNA
A:Residues: 1-309 <PEN>
A:Cross-references: UNIPROT:Q52502; EMBL:X74325; NID:943
A:Experimental source: strain 22


```

Query Match      11.0%; Score 68; DB 2; Length 1474;
Best Local Similarity 27.0%; Pred. No. 99;
Matches 30; Conservative 19; Mismatches 42; Indels 20; Gaps 5;

QY 16 LWLDLWAGSSFL--SPEHORVORPPHKAPHVV-----PALPLSNQLCDLEQQRHLLWASVF 70
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 716 VFGLGSLTQATYLCFDEVHKRL-----YTSRHVVVFDEAGFPFSN----LTSQSLPTVT 766

QY 71 SQSTKD-----SGSDLTVSGRTWGLRVLNLRLFPDSSRRSRRRSHOPSCSP 115
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 767 EQSSSLPVTPILGSSSVFLSCSSPCTVLHQQQPPVPTPNSPHSSOPTTSP 817
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

Search completed: July 11, 2006, 17:06:05
Job time : 41 secs

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GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: July 11, 2006, 16:57:12 ; Search time 297 Seconds
(without alignments)
364.400 Million cell updates/sec

Title: US-10-659-782B-32

Perfect score: 620

Sequence: 1 MPSPGTVCSSLLGLMLDL.....PPSSRRSRSHQPCSPSEL 117

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2849598 seqs, 92501592 residues

Total number of hits satisfying chosen parameters: 2849598

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Uniprot 7.2.*

1: uniprot_sprot.*

2: uniprot_trembl.*

! Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	198	31.9	91	Q86YP8 HUMAN	Q86YP8 homo sapien
2	198	31.9	117	Q9UBU3 HUMAN	Q9UBU3 homo sapien
3	194	31.3	117	Q6UDE7 MACMU	Q6UDE7 macaca mulatta
4	187	30.2	36	Q5Y392 HUMAN	Q5Y392 homo sapien
5	180	29.0	117	Q5Y392 FELCA	Q5Y392 felis silve
6	171.5	27.7	116	Q6BEG7 CAPRI	Q6BEG7 capra hircu
7	165	26.6	117	Q8CH53 MERUN	Q8CH53 meriones un
8	163	26.3	117	Q9EQX0 MOUSE	Q9EQX0 mus musculu
9	162	26.1	86	Q811T4 MOUSE	Q811T4 mus musculu
10	162	26.1	117	Q811T4 CANFA	Q811T4 canis famul
11	158.5	25.6	78	Q7TSD1 MOUSE	Q7TSD1 mus musculu
12	158	25.5	117	Q9QVH7 RAT	Q9QVH7 rattus norv
13	157.5	25.4	116	Q863L0 SHEEP	Q863L0 ovis aries
14	153	24.7	49	Q4SRQ6 BUBBU	Q4SRQ6 bubalus bub
15	150.5	24.3	74	Q67BB5 PIG	Q67BB5 sus scrofa
16	150.5	24.3	118	Q9GKY5 SUS	Q9GKY5 sus scrofa
17	150.5	24.3	118	Q210G0 PIG	Q210G0 sus scrofa
18	147	23.7	54	Q6SLG1 CAPHI	Q6SLG1 capra hircu
19	146	23.5	54	Q6SLF6 CEREL	Q6SLF6 cervus elap
20	145.5	23.5	74	Q4SRQ5 BOSIN	Q4SRQ5 bos indicus
21	145.5	23.5	116	Q9BDJ6 BOS	Q9BDJ6 bos taurus
22	145	23.4	52	Q6SLF9 CETA	Q6SLF9 odocoileus
23	145	23.4	54	Q6SLF2 ODOHE	Q6SLF2 odocoileus
24	145	23.4	54	Q6SLF8 RANTA	Q6SLF8 rangifer ta
25	142	22.9	54	Q6SLF4 CETA	Q6SLF4 alces alces
26	135.5	21.9	65	Q6TGF0 PIG	Q6TGF0 sus scrofa
27	135.5	21.9	107	Q30DT1 SHEEP	Q30DT1 ovis aries
28	133	21.5	54	Q6SLG3 SHEEP	Q6SLG3 ovis aries
29	130	21.0	54	Q6SPC2 BISBI	Q6SPC2 bison bison
30	122.5	19.8	54	Q6SLG5 KOGBR	Q6SLG5 kogia brevi
31	122.5	19.8	54	Q6SLG7 BOVIN	Q6SLG7 bos taurus

32 113.5 18.3 97 2 Q863C6 SHEEP Q863C6 ovis aries
33 101 16.3 35 2 Q6SPC3 ANTM Q6SPC3 antilocapra
34 98.5 15.9 116 2 Q6VMJ7 AVES Q6VMJ7 anser sp. (
35 95 15.3 114 2 Q6F4B4 TRASC Q6F4B4 trachemys s
36 95 15.3 124 2 Q6F4B3 TRASC Q6F4B3 trachemys s
37 93 15.0 116 2 Q6VMJ5 DRONO Q6VMJ5 dromaeus no
38 93 15.0 116 2 Q6VMJ6 ANAPL Q6VMJ6 anas platyr
39 81 13.1 100 2 OS2856 BACSU OS2856 bacillus su
40 78.5 12.7 1037 2 Q4S8Y6 TETNG Q4S8Y6 tetraodon n
41 78 12.6 136 2 Q665H9 YERPS Q665H9 yersinia ps
42 78 12.6 136 2 Q82AUI YERPE Q82AUI yersinia pe
43 78 12.6 471 2 Q3CNT3 ALTAT Q3CNT3 pseudoalter
44 78 12.6 1218 2 Q9W201 DROME Q9W201 drosophila
45 77 12.4 445 2 Q3E3V5 CHLAU Q3E3V5 chloroflexu

ALIGNMENTS

RESULT 1
Q86YP8 HUMAN PRELIMINARY; PRT; 91 AA.
ID Q86YP8;
AC Q86YP8;
DT 01-JUN-2003, integrated into UniProtKB/TrEMBL.
DT 01-JUN-2003, sequence version 1.
DT 07-FEB-2006, entry version 10.
DE Exon 3-deleted preproghrelin variant.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA Jeffery P.L., Hexington A.C., Chopin L.K.;
RL Submitted (NOV-2002) to the EMBL/GenBank/DBJ databases.
CC Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC Distributed under the Creative Commons Attribution-NoDerivs License
CC -----
DR EMBL; AY184207; AAO27351.1; -; mRNA.
DR Ensemble; ENSG00000157017; Homo sapiens.
DR GO; GO:0005576; C:extracellular region; IEA.
DR GO; GO:0016608; P:growth hormone-releasing hormone activity; IEA.
DR GO; GO:0050791; F:regulation of physiological process; IEA.
DR InterPro; IPR006738; motilin ghrelin.
DR InterPro; IPR005441; Preproghrelin.
DR PANTHER; PTHR14122; Preproghrelin; 1.
DR Pfam; PF04644; Motilin ghrelin; 1.
DR PRINTS; PR01624; GHRELIN.
SQ SEQUENCE 91 AA; 9972 MW; E7E532D32A3F8609 CRC64;

Query Match 31.9%; Score 198; DB 2; Length 91;

Best Local Similarity 88.6%; Pred. No. 1.3e-12;

Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MPSPGTVCSSLLGLMLDLAMAGSFLSPHQVQVRPPHKAP 44

Db 1 MPSPGTVCSSLLGLMLDLAMAGSFLSPHQVQVRPPHKAP 44

RESULT 2

GHRL HUMAN STANDARD; PRT; 117 AA.
ID GHRL HUMAN
AC Q9UBU3; Q8TAT9; Q9H3R3;
DT 13-DEC-2001, integrated into UniProtKB/Swiss-Prot.
DT 01-MAY-2000, sequence version 1.
DT 07-MAR-2006, entry version 52.
DE Appetite-regulating hormone precursor (Growth hormone secretagogue)
DE (Growth hormone-releasing peptide) (Motilin-related peptide) (M46
DE protein) [Contains: Ghrelin-27; Ghrelin-28 (Ghrelin); Obestatin].
GN Name=GHRL; Synonyms=MTLRP; ORFNames=UNQ524/PRO1066;
OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
 OC Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RN TISSUE=Stomach;
 RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1), AND ACYLATION OF SER-26.
 RC MEDLINE=20067959; PubMed=10604470; DOI=10.1038/45230;
 RA Kojima M., Hosoda H., Date Y., Nakazato M., Matsuo H., Kangawa K.;
 RT "Ghrelin is a growth-hormone-releasing acylated peptide from
 RT stomach.";
 RL Nature 402:656-660(1999).
 RN [2]
 RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1), AND PROTEIN SEQUENCE OF 24-33.
 RC TISSUE=Stomach;
 RX MEDLINE=20389976; PubMed=10930375;
 RA Tomasetto C., Karam S.M., Ribieras S., Masson R., Lefebvre O.,
 RA Staub A., Alexander G., Chenard M.-P., Rio M.-C.;
 RT "Identification and characterization of a novel gastric peptide
 RT hormone: the motilin-related peptide.";
 RL Gastroenterology 119:395-405(2000).
 RN [3]
 RP NUCLEOTIDE SEQUENCE [GENOMIC DNA].
 RA Wajnaraj M.P., Ten I.S., Gertner J.M., Leibell R.L.;
 RT "Genomic organization of the human Ghrelin gene.";
 RL J. Endocr. Genet. 1:231-233(2000).
 RN [4]
 RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 2), TISSUE SPECIFICITY, ACYLATION
 RP OF SER-26, AND MASS SPECTROMETRY.
 RC TISSUE=Stomach;
 RX PubMed=12414809; DOI=10.1074/jbc.M205366200;
 RA Hosoda H., Kojima M., Mizushima T., Shimizu S., Kangawa K.;
 RT "Structural divergence of human ghrelin. Identification of multiple
 RT ghrelin-derived molecules produced by post-translational processing.";
 RL J. Biol. Chem. 278:64-70(2003).
 RN [5]
 RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
 RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
 RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,
 RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
 RA Eaton D., Foster J.S., Grimaldi C., Gu Q., Hass P.E., Heidens S.,
 RA Huang A., Kim H.S., Klinkowski L., Jin Y., Johnson S., Lee J.,
 RA Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,
 RA Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
 RA Vandlen R.L., Watanabe C., Wiand D., Woods K., Xie M.-H.,
 RA Yansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,
 RA Wood W.I., Godowski P.J., Gray A.M.;
 RT "The secreted protein discovery initiative (SPDI), a large-scale
 RT effort to identify novel human secreted and transmembrane proteins: a
 RT bioinformatics assessment.";
 RL Genome Res. 13:2265-2270(2003).
 RN [6]
 RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
 RC TISSUE=Blood;
 RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Datchenko L., Marusina K., Farmer A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Udén T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalón D.K., Muzny D.N., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettner M., Madan A., Rodrigues S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywicki M.I., Skalska U., Smallos D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human

RT and mouse cDNA sequences.";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [7]
 RP PROTEIN SEQUENCE OF 24-38.
 RX PubMed=15340161; DOI=10.1110/ps.04682504;
 RA Zhang Z., Henzel W.J.;
 RT "Signal peptide prediction based on analysis of experimentally
 RT verified cleavage sites.";
 RL Protein Sci. 13:2819-2824(2004).
 RN [8]
 RP REVIEW.
 RX MEDLINE=21203998; PubMed=11306336; DOI=10.1016/S1043-2760(00)00362-3;
 RA Kojima M., Hosoda H., Matsuo H., Kangawa K.;
 RT "Ghrelin: discovery of the natural endogenous ligand for the growth
 RT hormone secretagogue receptor.";
 RL Trends Endocrinol. Metab. 12:118-122(2001).
 CC -!- FUNCTION: Ghrelin is a specific ligand for the growth hormone
 CC secretagogue receptor type 1 (GHSR) inducing the release of growth
 CC hormone from the pituitary. Has an appetite-stimulating effect,
 CC induces adiposity and stimulates gastric acid secretion. Involved
 CC in growth regulation.
 CC -!- FUNCTION: Obestatin is a specific ligand for the GPR39 receptor.
 CC It has an appetite-reducing effect, results in decreased food
 CC intake, and reduces gastric emptying activities and jejunal
 CC motility (By similarity).
 CC -!- SUBCELLULAR LOCATION: Secreted protein.
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=2;
 CC Name=1; Synonyms=Ghrelin;
 CC IsoId=Q9UBU3-1; Sequence=Displayed;
 CC Name=2; Synonyms=del-Gln14-ghrelin;
 CC IsoId=Q9UBU3-2; Sequence=VSP_003245;
 CC -!- TISSUE SPECIFICITY: Highest level in stomach. All forms are found
 CC in serum as well. Other tissues compensate for the loss of ghrelin
 CC synthesis in the stomach following gastrectomy.
 CC -!- PTM: O-n-octanoylation is essential for ghrelin activity. The O-n-
 CC decanoylated forms Ghrelin-27-C10 and Ghrelin-28-C10 differ in the
 CC length of the carbon backbone of the carboxylic acid bound to Ser-
 CC 26. A small fraction of ghrelin, ghrelin-28-C10:1, may be modified
 CC with an unsaturated carboxylic acid.
 CC -!- PTM: Amidation of Leu-98 is essential for obestatin activity (By
 CC similarity).
 CC -!- MASS SPECTROMETRY: MW=3398.9; MW_ERR=0.3; METHOD=Electrospray;
 CC RANGE=24-51 (Ghrelin-28-C10); NOTE=O-decanoylated form (Ref.4).
 CC -!- MASS SPECTROMETRY: MW=3397.2; MW_ERR=0.5; METHOD=Electrospray;
 CC RANGE=24-51 (Ghrelin-28-C10:1); NOTE=O-decanoylated form (Ref.4).
 CC -!- MASS SPECTROMETRY: MW=3371.3; MW_ERR=0.1; METHOD=Electrospray;
 CC RANGE=24-51 (Ghrelin-28); NOTE=O-octanoylated form (Ref.4).
 CC -!- MASS SPECTROMETRY: MW=3243.6; MW_ERR=0.4; METHOD=Electrospray;
 CC RANGE=24-50 (Ghrelin-27-C10); NOTE=O-decanoylated form (Ref.4).
 CC -!- MASS SPECTROMETRY: MW=3214.6; MW_ERR=0.6; METHOD=Electrospray;
 CC RANGE=24-50 (Ghrelin-27); NOTE=O-octanoylated form (Ref.4).
 CC -!- SIMILARITY: Belongs to the motilin family.
 CC -!- DATABASE: NAME=Atlas Genet. Cytogenet. Oncol. Haematol.;
 CC WWW="http://www.infobase.fr/services/chromancer/Genes/GhrelinID327.html".
 CC -!- DATABASE: NAME=Protein Spotlight; NOTE=Issue 66 of January 2006;
 CC WWW="http://www.expasy.org/spotlight/back_issues/split066.shtml".
 CC -----
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 CC -----
 CC EMBL; AB029434; BAA89371.1; -; mRNA.
 CC EMBL; AJ252278; CAB65733.1; -; mRNA.
 CC EMBL; AF296558; AAG10300.1; -; Genomic_DNA.
 CC EMBL; AB035700; BAB19045.1; -; mRNA.
 CC EMBL; AY359053; AAQ89412.1; -; mRNA.
 CC EMBL; BC025791; AAH25791.1; -; mRNA.
 CC PIR; A59316; A59316.
 CC PDB; 1P7X; Model; A=1-117.
 CC Ensembl; ENSG00000157017; Homo sapiens.
 CC H-InvDB; HIX0003050; -.
 CC HGNC; HGNC:18129; GHRL.
 CC MIM; 605353; gene.

DR GO; GO:0005615; C:extracellular space; ISS.
 DR GO; GO:0001664; F:G-protein-coupled receptor binding; ISS.
 DR GO; GO:0016608; F:growth hormone-releasing hormone activity; ISS.
 DR GO; GO:0007186; F:G-protein coupled receptor protein signalin. . .; ISS.
 DR GO; GO:0050791; P:regulation of physiological process; ISS.
 DR InterPro; IPR006737; motilin assoc.
 DR InterPro; IPR006738; motilin ghrelin.
 DR InterPro; IPR005441; Preproghrelin.
 DR PANTHER; PTHR14122; Preproghrelin; 1.
 DR Pfam; PF04643; Motilin_assoc; 1.
 DR Pfam; PF04644; Motilin_ghrelin; 1.
 DR PRINTS; PR01624; GHRELIN.
 DR ProDom; PD332162; Preproghrelin; 1.
 KW 3D-structure; Alternative splicing; Amidation;
 KW Direct protein sequencing; Hormone; Lipoprotein; Signal.
 FT SIGNAL 1 23
 FT PEPTIDE 24 51
 FT 24 51 Ghrelin-28.
 FT /FTId=PRO 0000019202.
 FT Ghrelin-27.
 FT 24 50
 FT /FTId=PRO 0000019203.
 FT Removed in mature form.
 FT 52 75
 FT /FTId=PRO 0000019204.
 FT Obestatin (By similarity).
 FT 76 98
 FT /FTId=PRO 0000045140.
 FT Removed in mature form (By similarity).
 FT 99 117
 FT /FTId=PRO 0000045141.
 FT Leucine amide (G-99 provides amide group)
 FT (By similarity).
 FT 98 98
 FT O-decanoyl serine (in form ghrelin-27-C10
 FT and form ghrelin-28-C10).
 FT 26 26
 FT O-octanoyl serine (in form ghrelin-27 and
 FT form ghrelin-28).
 FT 26 26
 FT Missing (in isoform 2).
 FT 37 37
 FT /FTId=VSP 003245.
 FT L -> M (in Ref. 6).
 FT 72 72
 FT CONFLICT 5 6
 FT STRAND 8 14
 FT TURN 15 16
 FT STRAND 17 24
 FT TURN 25 26
 FT STRAND 27 29
 FT HELIX 30 35
 FT TURN 36 36
 FT STRAND 37 37

Query Match 31.9%; Score 198; DB 1; Length 117;
 Best Local Similarity 88.6%; Pred. No. 1.8e-12;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSPGTCVCSLLLLGLMLDLAMAGSFLSPHQVQVRPPHKAP 44
 |||||
 DB 1 MSPGTCVCSLLLLGLMLDLAMAGSFLSPHQVQVRPPHKAP 44
 |||||

RESULT 3
 Q5UDE7 MACMU PRELIMINARY; PRT; 117 AA.
 AC Q6UDE7;
 DT 05-JUL-2004, integrated into UniProtKB/TrEMBL.
 DT 05-JUL-2004, sequence version 1.
 DT 07-FEB-2006, entry version 7.
 DE Ghrelin.
 GN Name=GHRL;
 OS Macaca mulatta (Rhesus macaque).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 OC Cercopithecoidea; Cercopithecinae; Macaca.
 OX NCBI_TaxID=9544;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX PubMed=14736731; DOI=10.1210/en.2003-1103;
 RA Angeloni S.V., Glynn N., Ambrosini G., Garant M.J., Dee Higley J.,
 RA Suomi S., Hansen B.C.;

RT "Characterization of the rhesus monkey ghrelin gene and factors
 influencing ghrelin gene expression and fasting plasma levels.";
 RL Endocrinology 145:2197-2205(2004).
 CC
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 CC
 CC EMBL; AY372274; AAQ74837.1; -; Genomic_DNA.
 DR EMBL; AY371699; AAQ74381.1; -; mRNA.
 DR GO; GO:0005576; C:extracellular region; IEA.
 DR GO; GO:0016608; F:growth hormone-releasing hormone activity; IEA.
 DR GO; GO:0050791; P:regulation of physiological process; IEA.
 DR InterPro; IPR006737; motilin_assoc.
 DR InterPro; IPR006738; motilin_ghrelin.
 DR InterPro; IPR005441; Preproghrelin.
 DR PANTHER; PTHR14122; Preproghrelin; 1.
 DR Pfam; PF04643; Motilin_assoc; 1.
 DR Pfam; PF04644; Motilin_ghrelin; 1.
 DR PRINTS; PR01624; GHRELIN.
 DR ProDom; PD332162; Preproghrelin; 1.
 SQ SEQUENCE 117 AA; 12913 MW; 1B634ACE1E1F19FF CRC64;
 Query Match 31.3%; Score 194; DB 2; Length 117;
 Best Local Similarity 86.4%; Pred. No. 4.7e-12;
 Matches 38; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSPGTCVCSLLLLGLMLDLAMAGSFLSPHQVQVRPPHKAP 44
 |||||
 DB 1 MSPGTCVCSLLLLGLMLDLAMAGSFLSPHQVQVRPPHKAP 44
 |||||

RESULT 4
 Q5Y392 HUMAN PRELIMINARY; PRT; 36 AA.
 AC Q5Y392;
 DT 23-NOV-2004, integrated into UniProtKB/TrEMBL.
 DT 23-NOV-2004, sequence version 1.
 DT 07-FEB-2006, entry version 7.
 DE Ghrelin (Fragment).
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
 OC Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX PubMed=15604212; DOI=10.1210/en.2004-1306;
 RA Wei W., Wang G., Qi X., Englander E.W., Greeley G.H. Jr.;
 RT "Characterization and regulation of the rat and human ghrelin
 promoters";
 RL Endocrinology 146:1611-1625(2005).
 CC
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 CC
 CC EMBL; AY701846; AAU93610.1; -; Genomic_DNA.
 DR Ensembl; ENSG00000157017; Homo sapiens.
 DR GO; GO:0005576; C:extracellular region; IEA.
 DR GO; GO:0016608; F:growth hormone-releasing hormone activity; IEA.
 DR InterPro; IPR005441; Preproghrelin.
 DR PANTHER; PTHR14122; Preproghrelin; 1.
 FT NON_TER 36
 SQ SEQUENCE 36 AA; 3887 MW; BEAF2F6ABD6968BF CRC64;
 Query Match 30.2%; Score 187; DB 2; Length 36;
 Best Local Similarity 100.0%; Pred. No. 6.2e-12;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSPGTCVCSLLLLGLMLDLAMAGSFLSPHQVQ 36
 |||||
 DB 1 MSPGTCVCSLLLLGLMLDLAMAGSFLSPHQVQ 36
 |||||

RESULT 5
 GHRL_FELCA STANDARD; PRT; 117 AA.
 AC Q6BEG6; Q6BEG5;
 DT 27-SEP-2004, integrated into UniProtKB/Swiss-Prot.
 DT 13-SEP-2004, sequence version 1.
 DT 07-FEB-2006, entry version 17.
 DE Appetite-regulating hormone precursor (Growth hormone secretagogue)
 DE (Growth hormone-releasing peptide) (Motilin-related peptide)
 DE [Contains: Ghrelin; Obestatin].
 GN Name=GHRL;
 OS Felis silvestris catus (Cat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Laurasiatheria; Carnivora; Fissipedia; Felidae;
 OC Felinae; Felis.
 OX NCBI_TaxID=9685;
 RN [1]
 RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORMS 1 AND 2).
 RC TISSUE=Stomach;
 RA Lin X., Miyazato M., Kaiya H., Ida T., Kangawa K.;
 RT "cDNA cloning of feline and caprine ghrelin.";
 RL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.
 CC -!- FUNCTION: Ghrelin is a specific ligand for the growth hormone
 CC secretagogue receptor type 1 (GHSR) inducing the release of growth
 CC hormone from the pituitary. Has an appetite-stimulating effect,
 CC induces adiposity and stimulates gastric acid secretion. Involved
 CC in growth regulation (By similarity).
 CC -!- FUNCTION: Obestatin is a specific ligand for the GPR39 receptor.
 CC It has an appetite-reducing effect, results in decreased food
 CC intake, and reduces gastric emptying activities and jejunal
 CC motility (By similarity).
 CC -!- SUBCELLULAR LOCATION: Secreted protein.
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event-Alternative splicing; Named isoforms-2;
 CC Name=1; Synonyms=Ghrelin;
 CC IsoId=Q6BEG6-1; Sequences=Displayed;
 CC Name=2; Synonyms=del-Gln14-ghrelin;
 CC IsoId=Q6BEG6-2; Sequences=VSP_011626;
 CC -!- PTM: O-n-octanoylation is essential for ghrelin activity (By
 CC similarity).
 CC -!- PTM: Amidation of Leu-98 is essential for obestatin activity (By
 CC similarity).
 CC -!- SIMILARITY: Belongs to the motilin family.
 CC
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 CC
 CC -----
 CC EMBL; AB089201; BAD34670.1; -; mRNA.
 CC EMBL; AB089202; BAD34671.1; -; mRNA.
 CC InterPro; IPR006737; motilin_assoc.
 CC InterPro; IPR006738; motilin_ghrelin.
 CC InterPro; IPR005441; Preproghrelin.
 CC PANTHER; PTHR14122; Preproghrelin; 1.
 CC Pfam; PF04643; Motilin_assoc; 1.
 CC Pfam; PF04644; Motilin_ghrelin; 1.
 CC PRINTS; PR01624; GHRELIN.
 CC ProDom; PD32162; Preproghrelin; 1.
 CC Alternative splicing; Amidation; Hormone; Lipoprotein; Signal.
 KW SIGNAL 1 23 By similarity.
 FT PEPTIDE 24 51 Ghrelin (By similarity).
 FT PROPEP 52 75 /FTID=PRO_0000019200.
 FT FT Removed in mature form (By similarity).
 FT FT /FTID=PRO_0000019201.
 FT FT Obestatin (By similarity).
 FT FT /FTID=PRO_0000045138.
 FT FT Removed in mature form (By similarity).
 FT FT /FTID=PRO_0000045139.
 FT FT Leucine amide (G-99 provides amide group)
 FT MOD_RES 98 (By similarity).
 FT FT O-octanoyl serine (By similarity).
 FT LIPID 26 26 O-octanoyl serine (By similarity).
 FT VARSPLIC 37 37 Missing (in isoform 2).
 FT FT /FTID=VSP_011626.
 FT SEQUENCE 117 AA; 12956 MW; 8235A5147FFF530 CRC64;

Query Match 29.0%; Score 180; DB 1; Length 117;
 Best Local Similarity 79.5%; Pred. No. 1.3e-10;
 Matches 35; Conservative 1; Mismatches 8; Indels 0; Gaps 0;
 QY 1 MPSPTGCSLLLLGLMLDLAMAGSSFLSPHQVQVRPPHKAP 44
 |||||
 DB 1 MPSPTGCSLLLLFSMLADLAMAGSSFLSPHQVQVRKESKPP 44
 |||||
 RESULT 6
 GHRL_CAPHI STANDARD; PRT; 116 AA.
 ID GHRL_CAPHI
 AC Q6BEG7;
 DT 27-SEP-2004, integrated into UniProtKB/Swiss-Prot.
 DT 13-SEP-2004, sequence version 1.
 DT 07-FEB-2006, entry version 16.
 DE Appetite-regulating hormone precursor (Growth hormone secretagogue)
 DE (Growth hormone-releasing peptide) (Motilin-related peptide)
 DE [Contains: Ghrelin; Obestatin].
 GN Name=GHRL;
 OS Capra hircus (Goat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 OC Pecora; Bovidae; Caprinae; Capra.
 OX NCBI_TaxID=9925;
 RN [1]
 RP NUCLEOTIDE SEQUENCE [MRNA].
 RC TISSUE=Stomach;
 RA Lin X., Miyazato M., Kaiya H., Ida T., Kangawa K.;
 RT "cDNA cloning of feline and caprine ghrelin.";
 RL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.
 CC -!- FUNCTION: Ghrelin is a specific ligand for the growth hormone
 CC secretagogue receptor type 1 (GHSR) inducing the release of growth
 CC hormone from the pituitary. Has an appetite-stimulating effect,
 CC induces adiposity and stimulates gastric acid secretion. Involved
 CC in growth regulation (By similarity).
 CC -!- FUNCTION: Obestatin is a specific ligand for the GPR39 receptor.
 CC It has an appetite-reducing effect, results in decreased food
 CC intake, and reduces gastric emptying activities and jejunal
 CC motility (By similarity).
 CC -!- SUBCELLULAR LOCATION: Secreted protein.
 CC -!- PTM: O-n-octanoylation is essential for ghrelin activity (By
 CC similarity).
 CC -!- PTM: Amidation of Leu-97 is essential for obestatin activity (By
 CC similarity).
 CC -!- SIMILARITY: Belongs to the motilin family.
 CC
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 CC
 CC -----
 CC EMBL; AB089200; BAD34669.1; -; mRNA.
 CC InterPro; IPR006737; motilin_assoc.
 CC InterPro; IPR006738; motilin_ghrelin.
 CC InterPro; IPR005441; Preproghrelin.
 CC PANTHER; PTHR14122; Preproghrelin; 1.
 CC Pfam; PF04643; Motilin_assoc; 1.
 CC Pfam; PF04644; Motilin_ghrelin; 1.
 CC PRINTS; PR01624; GHRELIN.
 CC ProDom; PD32162; Preproghrelin; 1.
 CC Amidation; Hormone; Lipoprotein; Signal.
 KW SIGNAL 1 23 By similarity.
 FT PEPTIDE 24 50 Ghrelin (By similarity).
 FT PROPEP 51 74 /FTID=PRO_0000019198.
 FT FT Removed in mature form (By similarity).
 FT FT /FTID=PRO_0000019199.
 FT FT Obestatin (By similarity).
 FT FT /FTID=PRO_0000045136.
 FT FT Removed in mature form (By similarity).
 FT FT /FTID=PRO_0000045137.
 FT FT Leucine amide (G-98 provides amide group)
 FT MOD_RES 97 97 (By similarity).
 FT LIPID 26 26 O-octanoyl serine (By similarity).

```

SQ SEQUENCE 116 AA; 12935 MW; CDA67971D72E3303 CRC64;
Query Match 27.7%; Score 171.5; DB 1; Length 116;
Best Local Similarity 42.9%; Pred. No. 1e-09;
Matches 42; Conservative 13; Mismatches 34; Indels 9; Gaps 2;

QY 1 MPSPGVCSLLGLMLDLAMAGSSFLSPHQVQVRPPHPKAPHVVPALPLSNQL-CDL 59
DB 1 MPAPRTICSLLLGLMLDLAMAGSSFLSPHQVQVRPPHPKAPHVVPALPLSNQL-CDL 60

QY 60 EQQRH-----LWASVFSQSTKDSGLTVSGRTWG 89
DB 61 GSQEGAEDELEIRFNAPFNIGIKLSGAQSLQHGQTLG 98

RESULT 7
Q8CH53 MERUN PRELIMINARY; PRT; 117 AA.
AC Q8CH53;
DT 01-MAR-2003, integrated into UniProtKB/TrEMBL.
DT 07-FEB-2006, entry version 12.
DE Chrelin preproprotein.
OS Meriones unguiculatus (Mongolian jird) (Mongolian gerbil).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Muridae; Gerbillinae; Meriones.
OX NCBI_TaxID=10047;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX PubMed=14724148; DOI=10.1136/gut.2003.021568;
RA Suzuki H., Masaka T., Hosoda H., Ota T., Minegishi Y., Nomura S.,
RA Kangawa K., Ishii H.;
RT "Helicobacter pylori infection modifies gastric and plasma ghrelin
RL Gut 53:187-194(2004).
CC -----
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CC -----
DR EMBL; AF424291; AAC006965.1; -; mRNA.
DR GO; GO:0005576; C:extracellular region; IEA.
DR GO; GO:0016608; F:growth hormone-releasing hormone activity; IEA.
DR GO; GO:0050791; P:regulation of physiological process; IEA.
DR InterPro; IPR006737; motilin assoc.
DR InterPro; IPR006738; motilin Ghrelin.
DR InterPro; IPR005441; Preproghrelin.
DR PANTHER; PTHR14122; Preproghrelin; 1.
DR Pfam; PF04643; Motilin assoc; 1.
DR Pfam; PF04644; Motilin_ghrelin; 1.
DR PRINTS; PR01624; GHRELIN.
DR ProDom; PD332162; Preproghrelin; 1.
SQ SEQUENCE 117 AA; 13035 MW; 27657687FC026A74 CRC64;
Query Match 26.6%; Score 165; DB 2; Length 117;
Best Local Similarity 41.0%; Pred. No. 4.9e-09;
Matches 43; Conservative 8; Mismatches 32; Indels 22; Gaps 2;

QY 1 MPSPGVCSLLGLMLDLAMAGSSFLSPHQVQVRPPHPKAPHVVPALPLSNQLCDLE 60
DB 1 MWSSGTCISLLGLMLDMVAMAGSSFLSPHQVQVRPPHPKAPHVVPALPLSNQLCDLE 54

QY 61 QQRH-----LWASVFSQSTKDSGLTVSGRTWG 89
DB 55 GMLHPDGRGOAEGAEDELEIRFNAPFDVGIKLSGAQYQOGRGALG 99

RESULT 8
GHRL_MOUSE STANDARD; PRT; 117 AA.
ID GHRL_MOUSE
AC Q9EQX0; Q9WU21;
DT 13-DEC-2001, integrated into UniProtKB/Swiss-Prot.
DT 01-MAR-2001, sequence version 1.

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DT 07-FEB-2006, entry version 39.
DE Appetite-regulating hormone precursor (Growth hormone secretagogue)
DE (Growth hormone-releasing peptide) (Motilin-related peptide) (M46
DE protein) [Contains: Ghrelin; Obestatin].
GN Name=Ghrl; Synonyms=Mtlrp;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORMS 1 AND 2), PROTEIN SEQUENCE OF
RP 24-30. SUBCELLULAR LOCATION, AND TISSUE SPECIFICITY.
RC TISSUE=Stomach;
RX MEDLINE=20389976; PubMed=10930375;
RA Tomasetto C., Karam S.M., Ribieras S., Masson R., Lefebvre O.,
RA Staub A., Alexander G., Chenard M.-P., Rio M.-C.;
RT "Identification and characterization of a novel gastric peptide
RT hormone: the motilin-related peptide.";
RL Gastroenterology 119:395-405(2000).
RN [2]
RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1).
RA Kojima M.;
RT "Mouse mRNA for preproghrelin.";
RL Submitted (DEC-1999) to the EMBL/GenBank/DBJ databases.
RN [3]
RP NUCLEOTIDE SEQUENCE (GENOMIC DNA) (ISOFORM 1).
RA Tanaka M., Hayashida Y., Iguchi T., Nakao N., Nakai N., Nakashima K.;
RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.
RN [4]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
RC STRAIN=C57BL/6J; TISSUE=Stomach;
RX PubMed=16141072; DOI=10.1126/science.1112014;
RA Carninci P., Kasukawa T., Katayama S., Gough J., Frith M.C., Maeda N.,
RA Oyama R., Ravasi T., Lenhard B., Wells C., Kodzius R., Shimokawa K.,
RA Bajic V.B., Brenner S.E., Batalov S., Forrest A.R., Zavolan M.,
RA Davis M.J., Wilming L.G., Aidinis V., Allen J.E.,
RA Ambesi-Impombato A., Apweiler R., Aturaliya R.N., Bailey T.L.,
RA Bansal M., Baxter L., Beisel K.W., Bersano T., Bono H., Chalk A.M.,
RA Chiu K.P., Choudhary V., Christoffels A., Clutterbuck D.R.,
RA Crowe M.L., Dalla E., Dalrymple B.P., de Bono B., Della Gatta G.,
RA di Bernardo D., Down T., Engstrom P., Fagiolini M., Faulkner G.,
RA Fletcher C.F., Fukushima T., Furuno M., Futaki S., Gariboldi M.,
RA Guscinich S., Harbers M., Hayashi Y., Hensch T.K., Hirokawa N.,
RA Hill D., Huminecki L., Iacono M., Ikeo K., Iwama A., Ishikawa T.,
RA Jakt M., Kanapin A., Katoh M., Kawasawa Y., Kelso J., Kitamura H.,
RA Kitano H., Kollas G., Krishnan S.P., Kruger A., Kummerfeld S.K.,
RA Kurochkin I.V., Lareau L.F., Lazarevic D., Lipovich L., Liu J.,
RA Liuni S., McWilliam S., Madan Babu M., Madera M., Marchionni L.,
RA Matsuda H., Matsuzawa S., Miki H., Mignone F., Miyake S., Morris K.,
RA Mottagui-Tabar S., Mulder N., Nakano N., Nakachi H., Ng P.,
RA Nilsson R., Nishiguchi S., Nishikawa S., Nori F., Ohara O.,
RA Okazaki Y., Orlando V., Pang K.C., Pavan W.J., Pavese G., Pesole G.,
RA Petrovsky N., Piazza S., Reed J., Reid J.F., Ring B.Z., Ringwald M.,
RA Rost B., Ruan Y., Salzberg S.L., Sandelin A., Schneider C.,
RA Schonbach C., Sekiguchi K., Semple C.A., Seno S., Sessa L., Sheng Y.,
RA Shibata Y., Shimada H., Shimada K., Silva D., Sinclair B.,
RA Sperling S., Stupka E., Sugtara K., Sultana R., Takenaka Y., Taki K.,
RA Tamada K., Tan S.L., Tang S., Taylor M.S., Tegner J., Teichmann S.A.,
RA Ueda H.R., van Nimwegen E., Verardo R., Wei C.L., Yagi K.,
RA Yamanishi H., Zabarovsky E., Zhu S., Zimmer A., Hide W., Bult C.,
RA Grimmond S.M., Teasdale R.D., Liu E.T., Brusic V., Quackenbush J.,
RA Wahlestedt C., Mattick J.S., Hume D.A., Kai C., Sasaki D., Tomaru Y.,
RA Fukuda S., Kanamori-Katayama M., Suzuki M., Aoki J., Arakawa T.,
RA Iida J., Imamura K., Itoh M., Kato T., Kawaji H., Kawagashira N.,
RA Kawashima T., Kojima M., Kondo S., Konno H., Nakano K., Ninomiya N.,
RA Nishio T., Okada M., Plessey C., Shibata K., Shiraki T., Suzuki S.,
RA Tagami M., Waki K., Watahiki A., Okamura-Oho Y., Suzuki H., Kawai J.,
RA Hayashizaki Y.;
RT "The transcriptional landscape of the mammalian genome.";
RL Science 309:1559-1563(2005).
RN [5]

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RESULT 12
GHRL_RAT
ID GHRL

AC Q90YH7: Q90YH7; integrated into UniProtKB/Swiss-Prot.
 DT 13-DEC-2001, sequence version 1.
 DT 01-MAY-2000, entry version 39.
 DE 07-MAR-2006, entry version 39.
 DE Appetite-regulating hormone precursor (Growth hormone secretagogue)
 DE (Growth hormone-releasing peptide) (Motilin-related peptide)
 DE [Contains: Ghrelin; Obestatin-23; Obestatin-13].
 GN Name=Ghrl;
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]
 RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1), PROTEIN SEQUENCE OF 24-51,
 RP MASS SPECTROMETRY, AND ACYLATION OF SER-26.
 RC STRAIN=Sprague-Dawley; TISSUE=Stomach;
 RA MEDLINE=20067959; PubMed=10604470; DOI=10.1038/45230;
 RA Kojima M., Hosoda H., Date Y., Nakazato M., Matsuo H., Kangawa K.;
 RT "Ghrelin is a growth-hormone-releasing acylated peptide from
 RT stomach.";
 RL Nature 402:656-660(1999).
 RN [2]
 RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1 AND 2), PROTEIN SEQUENCE OF
 RP 24-51, MASS SPECTROMETRY, AND ACYLATION OF SER-26.
 RC STRAIN=Sprague-Dawley; TISSUE=Stomach;
 RA MEDLINE=20357315; PubMed=10801861; DOI=10.1074/jbc.M002784200;
 RA Hosoda H., Kojima M., Matsuo H., Kangawa K.;
 RT "Purification and characterization of rat des-Gln14-ghrelin, a second
 RT endogenous ligand for the growth hormone secretagogue receptor.";
 RL J. Biol. Chem. 275:21995-22000(2000).
 RN [3]
 RP PROTEIN SEQUENCE OF 76-95, FUNCTION OF OBESTATIN, CHARACTERIZATION,
 RP AMIDATION, MASS SPECTROMETRY, AND INTERACTION WITH GPR39.
 RA PubMed=16284174; DOI=10.1126/science.1117255;
 RA Zhang J.V., Ren P.G., Avsian-Kretschmer O., Luo C.W., Rauch R.,
 RA Klein C., Hsueh A.J.;
 RT "Obestatin, a peptide encoded by the ghrelin gene, opposes ghrelin's
 RT effects on food intake";
 RL Science 310:996-999(2005).
 RN [4]
 RP CHARACTERIZATION.
 RA MEDLINE=21092536; PubMed=11162448; DOI=10.1006/bbrc.2000.4039;
 RA Hosoda H., Kojima M., Matsuo H., Kangawa K.;
 RT "Ghrelin and des-acyl ghrelin: two major forms of rat ghrelin peptide
 RT in gastrointestinal tissue.";
 RL Biochem. Biophys. Res. Commun. 279:909-913(2000).
 RN [5]
 RP STRUCTURE-ACTIVITY RELATIONSHIP.
 RA MEDLINE=21433488; PubMed=11549267; DOI=10.1006/bbrc.2001.5553;
 RA Matsumoto M., Hosoda H., Kitajima Y., Morozumi N., Minamitake Y.,
 RA Tanaka S., Matsuo H., Kojima M., Hayashi Y., Kangawa K.;
 RT "Structure-activity relationship of ghrelin: pharmacological study of
 RT ghrelin peptides.";
 RL Biochem. Biophys. Res. Commun. 287:142-146(2001).
 RN [6]
 RP REVIEW.
 RA MEDLINE=21203998; PubMed=11306336; DOI=10.1016/S1043-2760(00)00362-3;
 RA Kojima M., Hosoda H., Matsuo H., Kangawa K.;
 RT "Ghrelin: discovery of the natural endogenous ligand for the growth
 RT hormone secretagogue receptor.";
 RL Trends Endocrinol. Metab. 12:118-122(2001).
 CC -!- FUNCTION: Ghrelin is a specific ligand for the growth hormone
 CC secretagogue receptor type 1 (GHSR) inducing the release of growth
 CC hormone from the pituitary. Has an appetite-stimulating effect,
 CC induces adiposity and stimulates gastric acid secretion. Involved
 CC in growth regulation.
 CC -!- FUNCTION: Obestatin is a specific ligand for the GPR39 receptor.
 CC It has an appetite-reducing effect, results in decreased food
 CC intake, and reduces gastric emptying activities and jejunal
 CC motility.
 CC -!- SUBCELLULAR LOCATION: Secreted protein.
 CC -!- ALTERNATIVE PRODUCTS:

CC Event=Alternative splicing; Named isoforms=2;
 CC Name=1; Synonyms=Ghrelin;
 CC IsoId=Q90YH7-1; Sequence=Displayed;
 CC Name=2; Synonyms=des-Gln14-ghrelin;
 CC IsoId=Q90YH7-2; Sequence=VSP 003248;
 CC -!- TISSUE SPECIFICITY: Ghrelin is broadly expressed with higher
 CC expression in the stomach. Very low levels are detected in the
 CC hypothalamus, heart, lung, pancreas, intestine and adipose tissue.
 CC Obestatin is most highly expressed in jejunum, and also found in
 CC duodenum, stomach, pituitary, ileum, liver, hypothalamus and
 CC heart. Expressed in low levels in pancreas, cerebellum, cerebrum,
 CC kidney, testis, ovary colon and lung.
 CC -!- PTM: O-n-octanoylation is essential for ghrelin activity. The
 CC replacement of Ser-26 by aromatic tryptophan preserves ghrelin
 CC activity.
 CC -!- PTM: Amidation of Leu-98 is essential for obestatin activity.
 CC -!- MASS SPECTROMETRY: MW=3314.9; MW ERR=0.7; METHOD=Electrospray;
 CC RANGE=24-51 (Q90YH7-1); NOTE=Ref.1.
 CC -!- MASS SPECTROMETRY: MW=3187.1; MW ERR=0.6; METHOD=Electrospray;
 CC RANGE=24-50 (Q90YH7-2); NOTE=Ref.2.
 CC -!- MASS SPECTROMETRY: MW=2516.3; METHOD=Unknown; RANGE=76-98;
 CC NOTE=Ref.5.
 CC -!- SIMILARITY: Belongs to the motilin family.
 CC -!- DATABASE: NAME=Protein Spotlight; NOTE=Issue 66 of January 2006;
 CC WWW="http://www.expasy.org/spotlight/back_issues/sptl066.shtml".
 CC -----
 CC Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
 CC Distributed under the Creative Commons Attribution-NoDerivs License
 CC -----
 DR EMBL: AB029433; BAA89370.1; -; mRNA.
 DR EMBL: AB035699; BAB11956.1; -; mRNA.
 DR PIR: B59316; B59316.
 DR Ensembl: ENSRNOG0000010349; Rattus norvegicus.
 DR RGD: 632283; Ghrl.
 DR GO: GO:0005615; C:extracellular space; IC.
 DR GO: GO:0001664; F:G-protein-coupled receptor binding; IPI.
 DR GO: GO:0016608; F:growth hormone-releasing hormone activity; IDA.
 DR GO: GO:0007186; P:G-protein coupled receptor protein signalin. . .; IDA.
 DR GO: GO:0050791; P:regulation of physiological process; NAS.
 DR InterPro: IPR006737; motilin_assoc.
 DR InterPro: IPR006738; motilin_ghrelin.
 DR InterPro: IPR005441; Preproghrelin.
 DR PANTHER: PTHR14122; Preproghrelin.
 DR Pfam: PF04643; Motilin_assoc. 1.
 DR Pfam: PF04644; Motilin_ghrelin. 1.
 DR PRINTS: PR01624; GHRELIN.
 DR ProDom: PD332162; Preproghrelin. 1.
 DR Alternative splicing; Amidation; Direct protein sequencing; Hormone;
 KW Lipoprotein; Signal.
 KW SIGNAL 1 23
 KW PEPTIDE 24 51 Ghrelin.
 FT PROPEP 52 75 /FTid=PRO 0000019209.
 FT PEPTIDE 76 98 Removed in mature form.
 FT PEPTIDE 76 98 /FTid=PRO 0000019210.
 FT PEPTIDE 86 98 Obestatin-23.
 FT PEPTIDE 86 98 /FTid=PRO 0000045146.
 FT PROPEP 99 117 Obestatin-13 (Probable).
 FT MOD_RES 98 98 /FTid=PRO 0000045147.
 FT MOD_RES 98 98 Removed in mature form.
 FT MOD_RES 98 98 /FTid=PRO 0000045148.
 FT LIPID 26 26 Leucine amide (G-99 provides amide
 FT VARSPPLIC 37 37 group).
 FT VARSPPLIC 37 37 O-octanoyl serine.
 FT VARSPPLIC 37 37 Missing (in isoform 2).
 FT VARSPPLIC 37 37 /FTid=VSP 003248.
 SQ SEQUENCE 117 AA; 13176 MW; 8857546F851A7691 CRC64;
 Query Match 25.5%; Score 158; DB 1; Length 117;
 Best Local Similarity 40.0%; Pred. No. 2.6e-08;
 Matches 42; Conservative 7; Mismatches 34; Indels 22; Gaps 2;
 QY 1 MPSPTVCSLLGLGLDLAMAGSSFLSPHQVQVPPHAPHVVPALPSNLCLE 60

Db 1 MVSSATCSLLLSMLMWDAMAGSFLSPHQAKQKESKPP-----PAKIQPRALE 54

QY 61 QQRH-----LWASVFSQSTKDSGSLTVSGRTWG 89

Db 55 GWLHPEDRCQAEABEELRFNAPDPVGIKLSGAQYQHGRLG 99

RESULT 13

Q863LO SHEEP PRELIMINARY; PRT; 116 AA.

AC Q863LO;

DT 01-JUN-2003, integrated into UniProtKB/TrEMBL.

DT 01-JUN-2003, sequence version 1.

DT 07-FEB-2006, entry version 12.

DE Preproghrelin precursor.

OS Ovis aries (Sheep).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;

OC Pecora; Bovidae; Caprinae; Ovis.

OX NCBI_TaxID=9940;

RN [1]

RP NUCLEOTIDE SEQUENCE.

RC TISSUE=Stomach;

RA Doi K., Kojima M., Hosoda H., Kaiya H., Matsuo H., Kangawa K.;

RT "sheep ghrelin.";

RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.

RN [2]

RP NUCLEOTIDE SEQUENCE.

RC TISSUE=Stomach;

RA Lv D.Y., Cao G.F., Bai C.L., Xu R.G.;

RT "Mongolia sheep ghrelin mRNA.";

RL Submitted (NOV-2005) to the EMBL/GenBank/DBJ databases.

CC -----

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CC -----

CC EMBL; AB060699; BAC75928.1; -; mRNA.

DR EMBL; DQ294307; ABC00742.1; -; mRNA.

DR GO; GO:0005576; C:extracellular region; IEA.

DR GO; GO:0016608; F:growth hormone-releasing hormone activity; IEA.

DR GO; GO:0050791; P:regulation of physiological process; IEA.

DR InterPro; IPR006737; motilin assoc.

DR InterPro; IPR006738; motilin ghrelin.

DR InterPro; IPR005441; Preproghrelin.

DR PANTHER; PTHR14122; Preproghrelin; 1.

DR Pfam; PF04643; Motilin_assoc; 1.

DR Pfam; PF04644; Motilin_ghrelin; 1.

DR PRINTS; PR01624; GHRELIN.

DR Probom; PD332162; Preproghrelin; 1.

KW Signal.

FT SIGNAL 1 23 Potential.

FT CHAIN 24 50 ghrelin.

SQ SEQUENCE 116 AA; 12977 MW; B78ECA3DBF0E568E CRC64;

Query Match 25.4%; Score 157.5; DB 2; Length 116;

Best Local Similarity 40.8%; Pred. No. 2.9e-08;

Matches 40; Conservative 14; Mismatches 35; Indels 9; Gaps 2;

QY 1 MPSPTGTCVCSLLLSMLMWDAMAGSFLSPHQAKQKESKPPKAPVVPALPSNLQ-CDL 59

Db 1 MPAPRTIYSLLSLLMWDAMAGSFLSPHQAKQKESKPPKAPVVPALPSNLQ-CDL 60

QY 60 EQQRH-----LWASVFSQSTKDSGSLTVSGRTWG 89

Db 61 GSQGEAGDELRFNAPFNIGIKLSGAQSLQHGQTLG 98

RESULT 14

Q45RQ6_BUBBU PRELIMINARY; PRT; 49 AA.

AC Q45RQ6;

DT 13-SEP-2005, integrated into UniProtKB/TrEMBL.

DT 13-SEP-2005, sequence version 1.

DT 07-FEB-2006, entry version 2.

DE Ghrelin precursor (Fragment).

OS Bubalus bubalis (Domestic water buffalo).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;

OC Pecora; Bovidae; Bovinae; Bubalus.

OX NCBI_TaxID=89462;

RN [1]

RP NUCLEOTIDE SEQUENCE.

RC TISSUE=Blood;

RA Bavisakar P.S., Mitra A.;

RT "Characterization of ghrelin gene of zebu cattle (Bos indicus) and buffalo (Bubalus bubalis).";

RL Submitted (JUL-2005) to the EMBL/GenBank/DBJ databases.

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CC -----

CC EMBL; DQ118139; AAZ38152.1; -; Genomic DNA.

DR GO; GO:0005576; C:extracellular region; IEA.

DR GO; GO:0016608; F:growth hormone-releasing hormone activity; IEA.

DR GO; GO:0050791; P:regulation of physiological process; IEA.

DR InterPro; IPR005441; Preproghrelin.

DR Pfam; PF04644; Motilin_ghrelin; 1.

DR PRINTS; PR01624; GHRELIN.

KW Signal.

FT SIGNAL 1 23 Potential.

FT CHAIN 24 >49 ghrelin.

FT NON TER 49 49

SQ SEQUENCE 49 AA; 5436 MW; 6ABB94634997FAC6 CRC64;

Query Match 24.7%; Score 153; DB 2; Length 49;

Best Local Similarity 69.0%; Pred. No. 3.1e-08;

Matches 29; Conservative 7; Mismatches 6; Indels 0; Gaps 0;

QY 1 MPSPTGTCVCSLLLSMLMWDAMAGSFLSPHQAKQKESKPPK 42

Db 1 MPAPRTIYSLLSLLMWDAMAGSFLSPHQAKQKESKPPK 42

RESULT 15

Q67BB5_PIG PRELIMINARY; PRT; 74 AA.

AC Q67BB5;

DT 11-OCT-2004, integrated into UniProtKB/TrEMBL.

DT 11-OCT-2004, sequence version 1.

DT 07-FEB-2006, entry version 6.

DE Ghrelin (Fragment).

OS Sus scrofa (Pig).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Suina; Suidae;

OX Sus.

OX NCBI_TaxID=9823;

RN [1]

RP NUCLEOTIDE SEQUENCE.

RA Kim K.-S., Rothschild M.F.;

RT "Pig Ghrelin.";

RL Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.

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CC -----

CC EMBL; AY373019; AAR24571.1; -; Genomic DNA.

DR GO; GO:0005576; C:extracellular region; IEA.

DR GO; GO:0016608; F:growth hormone-releasing hormone activity; IEA.

DR GO; GO:0050791; P:regulation of physiological process; IEA.

DR InterPro; IPR006738; motilin ghrelin.

DR InterPro; IPR005441; Preproghrelin.

DR PANTHER; PTHR14122; Preproghrelin; 1.

DR Pfam; PF04644; Motilin_ghrelin; 1.

DR PRINTS; PR01624; GHRELIN.

FT NON TER 74 74

SQ SEQUENCE 74 AA; 7980 MW; 875424C2D41FC166 CRC64;

Query Match 24.3%; Score 150.5; DB 2; Length 74;
Best Local Similarity 71.1%; Pred. No. 9.1e-08;
Matches 32; Conservative 4; Mismatches 8; Indels 1; Gaps 1;
QY 1 MPSPGTVCGLLLGLMLL-DLAWAGSSFLSPFHQRVQVRPPHKAP 44
Db 1 MPSTGTICSLLLSVLLMADLAWAGSSFLSPFHQRVQVRPPHKAP 45

Search completed: July 11, 2006, 17:05:19
Job time : 298 secs

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 OM protein - protein search, using sw model
 Run on: July 11, 2006, 17:05:38 ; Search time 50 Seconds
 (without alignments)
 204.822 Million cell updates/sec
 Title: US-10-659-782B-32
 Perfect score: 620
 Sequence: 1 MPSPGTVCVSLLLGMLWLDL.....PPSSRRSRSHQSPSCPEL 117
 Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5
 Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Issued Patents AA:
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 2: /EMC_Celerra_SIDS3/ptodata/2/iaa/6_COMB.pap:
 3: /EMC_Celerra_SIDS3/ptodata/2/iaa/7_COMB.pap:
 4: /EMC_Celerra_SIDS3/ptodata/2/iaa/H_COMB.pap:
 5: /EMC_Celerra_SIDS3/ptodata/2/iaa/PCTUS_COMB.pap:
 6: /EMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pap:
 7: /EMC_Celerra_SIDS3/ptodata/2/iaa/backfiles.pap:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	198	31.9	117	2	US-09-046-479-2
2	198	31.9	117	2	US-08-822-897C-2
3	198	31.9	117	2	US-09-608-810A-4
4	198	31.9	117	2	US-09-404-417A-2
5	198	31.9	117	2	US-09-794-987-2
6	198	31.9	117	2	US-09-853-253-2
7	198	31.9	117	2	US-09-991-181-268
8	198	31.9	117	2	US-09-990-444-268
9	198	31.9	117	2	US-09-796-158-2
10	198	31.9	117	2	US-09-997-333-268
11	198	31.9	117	2	US-09-992-598-268
12	198	31.9	117	2	US-09-989-735-268
13	198	31.9	117	3	US-09-989-726-268
14	198	31.9	117	3	US-09-997-514-268
15	198	31.9	117	3	US-09-989-728-268
16	198	31.9	117	3	US-09-997-349-268
17	198	31.9	117	3	US-09-997-653-268
18	198	31.9	117	3	US-09-989-293A-268
19	78	12.6	28	2	US-09-880-498-1
20	78	12.6	28	2	US-10-276-392-12
21	78	12.6	28	2	US-10-276-392-21
22	74	11.9	23	2	US-10-276-392-4
23	74	11.9	28	2	US-10-276-392-1
24	74	11.9	28	2	US-10-276-392-7
25	74	11.9	28	2	US-10-276-392-8
26	74	11.9	28	2	US-10-276-392-9

27	74	11.9	28	2	US-10-276-392-10
28	74	11.9	28	2	US-10-276-392-11
29	74	11.9	28	2	US-10-276-392-13
30	74	11.9	28	2	US-10-276-392-14
31	74	11.9	28	2	US-10-276-392-15
32	74	11.9	28	2	US-10-276-392-16
33	74	11.9	28	2	US-10-276-392-17
34	74	11.9	28	2	US-10-276-392-18
35	74	11.9	28	2	US-10-276-392-19
36	74	11.9	28	2	US-10-276-392-20
37	74	11.9	597	2	US-09-949-016-7800
38	73.5	11.9	569	2	US-09-252-991A-27248
39	71.5	11.5	201	2	US-09-902-540-13645
40	71.5	11.5	643	2	US-09-252-991A-21569
41	70.5	11.4	382	2	US-09-949-016-10513
42	70.5	11.4	383	1	US-08-391-916A-4
43	70.5	11.4	393	2	US-09-764-803B-23
44	70.5	11.4	393	2	US-09-248-796A-19806
45	70	11.3	18	2	US-09-404-417A-11

ALIGNMENTS

RESULT 1
 US-09-046-479-2
 ; Sequence 2, Application US/09046479
 ; Patent No. 6291653
 ; GENERAL INFORMATION:
 ; APPLICANT: Sheppard, Paul O.
 ; APPLICANT: Deisher, Theresa A.
 ; TITLE OF INVENTION: MOTILIN HOMOLOGS
 ; NUMBER OF SEQUENCES: 7
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ZymoGenetics, Inc.
 ; STREET: 1201 Eastlake Avenue East
 ; CITY: Seattle
 ; STATE: WA
 ; COUNTRY: USA
 ; ZIP: 98102
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: FASTSEQ for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/046,479
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER:
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sawislak, Deborah A.
 ; REGISTRATION NUMBER: 37,438
 ; REFERENCE/DOCKET NUMBER: 97-04
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 206-442-6672
 ; TELEFAX: 206-442-6678
 ; TELEX:
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 117 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; FRAGMENT TYPE: internal
 ; US-09-046-479-2

Query Match 31.9%; Score 198; DB 2; Length 117;
 Best Local Similarity 88.6%; Pred. No. 4.4e-17;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MPSPGTVCSLLLLGMLWLDLWDLAMAGSSFLSPHQVQVRPPHKAP 44
Db 1 MPSPGTVCSLLLLGMLWLDLWDLAMAGSSFLSPHQVQVRPPHKAP 44

RESULT 2

US-08-822-897C-2
; Sequence 2, Application US/08822897C
; Patent No. 6380158
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Deisher, Theresa A.
; TITLE OF INVENTION: MOTILIN HOMOLOGS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 1201 Eastlake Avenue East
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sawislak, Deborah A.
; REGISTRATION NUMBER: 37,438
; REFERENCE/DOCKET NUMBER: 97-04
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-442-6672
; TELEFAX: 206-442-6678
; TELEX:
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 117 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
US-08-822-897C-2

Query Match 31.9%; Score 198; DB 2; Length 117;
Best Local Similarity 88.6%; Pred. No. 4.4e-17;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MPSPGTVCSLLLLGMLWLDLWDLAMAGSSFLSPHQVQVRPPHKAP 44
Db 1 MPSPGTVCSLLLLGMLWLDLWDLAMAGSSFLSPHQVQVRPPHKAP 44

RESULT 3

US-09-608-810A-4
; Sequence 4, Application US/09608810A
; Patent No. 6420521
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Jaspers, Stephen R.
; APPLICANT: Deisher, Theresa A.
; APPLICANT: Bishop, Paul D.
; TITLE OF INVENTION: SCIP PEPTIDES
; FILE REFERENCE: 99-51
; CURRENT APPLICATION NUMBER: US/09/608,810A

; CURRENT FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: 60/141,592
; PRIOR FILING DATE: 1999-06-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: (1)...(23)
US-09-608-810A-4

Query Match 31.9%; Score 198; DB 2; Length 117;
Best Local Similarity 88.6%; Pred. No. 4.4e-17;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MPSPGTVCSLLLLGMLWLDLWDLAMAGSSFLSPHQVQVRPPHKAP 44
Db 1 MPSPGTVCSLLLLGMLWLDLWDLAMAGSSFLSPHQVQVRPPHKAP 44

RESULT 4

US-09-404-417A-2
; Sequence 2, Application US/09404417A
; Patent No. 6627729
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Deisher, Theresa A.
; APPLICANT: Jaspers, Stephen R.
; TITLE OF INVENTION: TML PEPTIDES
; FILE REFERENCE: 97-04C1
; CURRENT APPLICATION NUMBER: US/09/404,417A
; CURRENT FILING DATE: 1999-09-23
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-404-417A-2

Query Match 31.9%; Score 198; DB 2; Length 117;
Best Local Similarity 88.6%; Pred. No. 4.4e-17;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MPSPGTVCSLLLLGMLWLDLWDLAMAGSSFLSPHQVQVRPPHKAP 44
Db 1 MPSPGTVCSLLLLGMLWLDLWDLAMAGSSFLSPHQVQVRPPHKAP 44

RESULT 5

US-09-794-987-2
; Sequence 2, Application US/09794987
; Patent No. 6838438
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Deisher, Theresa A.
; TITLE OF INVENTION: MOTILIN HOMOLOGS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 1201 Eastlake Avenue East
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0

;; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/794,987
; FILING DATE: 27-Feb-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/046,479
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Sawislak, Deborah A
; REGISTRATION NUMBER: 37,438
; REFERENCE/DOCKET NUMBER: 97-04
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-442-6672
; TELEFAX: 206-442-6678
; TELEX: <Unknown>

;; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 117 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:

US-09-794-987-2
Query Match 31.9%; Score 198; DB 2; Length 117;
Best Local Similarity 88.6%; Pred. No. 4.4e-17;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSPSGTVCSSLLGLMLDLAMAGSSFLSPHQVQVRPPHKAP 44
DB 1 MSPSGTVCSSLLGLMLDLAMAGSSFLSPHQVQVRPPHKAP 44

RESULT 6

;; Sequence 2, Application US/09853253
; Patent No. 6897286
; GENERAL INFORMATION:
; APPLICANT: JASPERS, STEPHEN
; APPLICANT: SHEPPARD, PAUL
; APPLICANT: DEISHER, THERESA
; APPLICANT: BISHOP, PAUL
; TITLE OF INVENTION: Zsig33-like Peptides
; FILE REFERENCE: 00-30
; CURRENT APPLICATION NUMBER: US/09/853,253
; CURRENT FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: 60/203,300
; PRIOR FILING DATE: 2000-05-11
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-853-253-2

Query Match 31.9%; Score 198; DB 2; Length 117;
Best Local Similarity 88.6%; Pred. No. 4.4e-17;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSPSGTVCSSLLGLMLDLAMAGSSFLSPHQVQVRPPHKAP 44
DB 1 MSPSGTVCSSLLGLMLDLAMAGSSFLSPHQVQVRPPHKAP 44

RESULT 7

;; Sequence 268, Application US/09991181
; Patent No. 6913919
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.

;; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC53
; CURRENT APPLICATION NUMBER: US/09/991,181
; CURRENT FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
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; PRIOR FILING DATE: 1998-07-07
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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 2; Length 117;
Best Local Similarity 88.6%; Pred. No. 4.4e-17;

Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MPSPTVCSSLLGLMLDLAMAGSSFLSPHQVQVRPPHKAP 44
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Db 1 MPSPTVCSSLLGLMLDLAMAGSSFLSPHQVQVRPPHKAP 44
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RESULT 8

US-09-990-444-268
; Sequence 268, Application US/09990444
; Patent No. 6930170
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C19
CURRENT APPLICATION NUMBER: US/09/990,444
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472

OPERATING SYSTEM: DOS

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69	PRIOR FILING DATE: 1998-06-11
70	PRIOR APPLICATION NUMBER: 60/089105
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; PRIOR FILING DATE: 1998-07-09

Query Match      31.9%; Score 198; DB 2; Length 117;
Best Local Similarity 88.6%; Pred. No. 4.4e-17;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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RESULT 11
US-09-992-598-268
; Sequence 268, Application US/09992598
; Patent No. 6956108
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
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; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC20
; CURRENT APPLICATION NUMBER: US/09/992,598
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;; PRIOR FILING DATE: 1998-07-07
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;; PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 2; Length 117;
Best Local Similarity 88.6%; Pred. No. 4,4e-17;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MFSPGTVCSSLLGLGLWLDLWLAGSSFLSPHQHVQVRPPHPKAP 44
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Db 1 MFSPGTVCSSLLGLGLWLDLWLAGSSFLSPHQHVQVRPPHPKAP 44
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RESULT 12

US-09-989-735-268
; Sequence 268, Application US/09989735
; Patent No. 6972185

GENERAL INFORMATION:

;; APPLICANT: Ashkenazi, Avi J.
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gertsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2730PIC61
;; CURRENT FILING DATE: 2001-11-19
;; PRIOR APPLICATION NUMBER: 60/049787
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Query Match          31.9%; Score 198; DB 2; Length 117;
Best Local Similarity 88.6%; Pred. No. 4.4e-17;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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; Patent No. 7018811
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
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; APPLICANT: Gurney, Austin L.
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; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
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Query Match 31.9%; Score 198; DB 3; Length 117;
Best Local Similarity 88.6%; Pred. No. 4.4e-17;

Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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RESULT 15
US-09-989-728-268
; Sequence 268, Application US/09989728
; Patent No. 7029873
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
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; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P27301C72
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; PRIOR FILING DATE: 1998-06-22

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Job time : 50 secs

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GenCore version 5.1.9
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OM protein - protein search, using sw model

Run on: July 11, 2006, 17:17:28 ; Search time 176 Seconds
(without alignments)
307.933 Million cell updates/sec

Title: US-10-659-782B-32
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Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	198	31.9	117	3	US-09-853-253-2
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29	198	31.9	117	3	US-09-989-728-268	Sequence 268, App
30	198	31.9	117	3	US-09-990-441-268	Sequence 268, App
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44	198	31.9	117	3	US-09-990-726-268	Sequence 268, App
45	198	31.9	117	3	US-09-997-559-268	Sequence 268, App

ALIGNMENTS

RESULT 1
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; Sequence 32, Application US/10659782A
; Publication No. US20050059015A1
; GENERAL INFORMATION:
; APPLICANT: Mintz, Liat
; TITLE OF INVENTION: Compositions, Reagents and Kits for and Methods of Diagnosing,
; FILE REFERENCE: 28338
; CURRENT APPLICATION NUMBER: US/10/659,782A
; CURRENT FILING DATE: 2003-09-11
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32
; LENGTH: 116
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-659-782A-32

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; Sequence 3, Application US/10294191A
; Publication No. US20030211512A1
; GENERAL INFORMATION:
; APPLICANT: Rothschild, Max F.
; APPLICANT: Kim, Kwan Suk
; APPLICANT: Anderson, Lloyd L.
; TITLE OF INVENTION: Novel Ghrelin Alleles and Use of the Same for Genetically Typing
; FILE REFERENCE: P05408U1
; CURRENT APPLICATION NUMBER: US/10/294,191A
; CURRENT FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: US 60/333,222
; PRIOR FILING DATE: 2001-11-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
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APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC63
CURRENT APPLICATION NUMBER: US/09/989,722
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; Sequence 268, Application US/09989723
; Patent No. US20020072092A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
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; APPLICANT: Grimaldi, J. Christopher
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; APPLICANT: Kljavin, Ivar J.
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; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C62
; CURRENT APPLICATION NUMBER: US/09/989,723
; CURRENT FILING DATE: 2001-11-19
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4	PRIOR APPLICATION NUMBER:	60/090557
5	PRIOR FILING DATE:	1998-06-24
6	PRIOR APPLICATION NUMBER:	60/090676
7	PRIOR FILING DATE:	1998-06-25
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9	PRIOR FILING DATE:	1998-06-25
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11	PRIOR FILING DATE:	1998-06-25
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15	PRIOR FILING DATE:	1998-06-25
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34	PRIOR APPLICATION NUMBER:	60/091978
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36	PRIOR APPLICATION NUMBER:	60/091982
37	PRIOR FILING DATE:	1998-07-07
38	PRIOR APPLICATION NUMBER:	60/092182
39	PRIOR FILING DATE:	1998-07-09

Best Local Similarity 88.6%; Pred. No. 2.2e-13;

Best local similarity 98.0%, P-adj: NO: 2.2E-13,
Matches 39: Conservative 0: Mismatches 5: Indels

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US-09-98

; sequence 268, A

APPLICANT: ashenazi avi

APPLICANT: BAKER, KEVIN D
APPLICANT: BOTSTEIN, DAVID

APPLICANT: Eaton Dan L.

APPLICANT: Fong, Sherman

; APPLICANT: Gerritsen, Max

; APPLICANT: Godowski, Paul

; APPLICANT: Gurney, Austin

APPLICANT: Napier, Mary F

APPLICANT: PAONI, NICHOLAS

; APPLICANT: STEWART, TIMOTHY

APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC56
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: US/09/989,279
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; PRIOR FILING DATE: 1998-07-07
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; PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 3; Length 117;
Best Local Similarity 88.6%; Pred. No. 2.2e-13;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSPSGTVCILLGLMLDLAMAGSSFLSPHQVQVRPPHAK 44
DB 1 MSPSGTVCILLGLMLDLAMAGSSFLSPHQVQVRPPHAK 44

RESULT 9
US-09-989-727-268
; Sequence 268, Application US/09989727
; Patent No. US20020072497A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: P2730PIC65
; CURRENT APPLICATION NUMBER: US/09/989,727
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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; PRIOR APPLICATION NUMBER: 60/088858
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; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
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42	PRIOR APPLICATION NUMBER: 60/090435	
43	PRIOR FILING DATE: 1998-06-24	
44	PRIOR APPLICATION NUMBER: 60/090444	
45	PRIOR FILING DATE: 1998-06-24	
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49	PRIOR FILING DATE: 1998-06-24	
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55	PRIOR FILING DATE: 1998-06-24	
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58	PRIOR APPLICATION NUMBER: 60/090676	
59	PRIOR FILING DATE: 1998-06-25	
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61	PRIOR FILING DATE: 1998-06-25	
62	PRIOR APPLICATION NUMBER: 60/090690	
63	PRIOR FILING DATE: 1998-06-25	
64	PRIOR APPLICATION NUMBER: 60/090696	
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66	PRIOR APPLICATION NUMBER: 60/090862	
67	PRIOR FILING DATE: 1998-06-26	
68	PRIOR APPLICATION NUMBER: 60/090863	
69	PRIOR FILING DATE: 1998-06-26	

QY	DB	Sequence	Score	DB 3	Length	Indels	Gaps
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1	1	MPSPGTVCSLLIGLWLDLADAGSGSFLSPHQRVQVPPHKKAP 44					
<p>Query Match 31.9%; Score 198; DB 3; Length 117; Best Local Similarity 88.6%; Pred. No. 2.2e-13; Matches 39; Conservative 0; Mismatches 5; Indels 5; Gaps 0;</p>							
<p>RESULT 11 US-09-989-732-268 Sequence 268, Application US/09989732 Patent No. US20020123463A1 GENERAL INFORMATION: APPLICANT: Ashkenazi, Avi J. APPLICANT: Baker, Kevin P. APPLICANT: Botstein, David APPLICANT: Desnoyers, Luc APPLICANT: Eaton, Dan L. APPLICANT: Ferrara, Napoleone APPLICANT: Fong, Sherman APPLICANT: Gerber, Hanspeter APPLICANT: Gerritsen, Mary E. APPLICANT: Goddard, Audrey APPLICANT: Godowski, Paul J. APPLICANT: Grimaldi, J. Christopher APPLICANT: Gurney, Austin L. APPLICANT: Kljavin, Ivar J. APPLICANT: Napier, Mary A. APPLICANT: Pan, James APPLICANT: Paoni, Nicholas F. APPLICANT: Roy, Margaret Ann APPLICANT: Stewart, Timothy A. APPLICANT: Tumas, Daniel APPLICANT: Watanabe, Colin K. APPLICANT: Williams, P. Mickey APPLICANT: Wood, William I. APPLICANT: Zhang, Zemin TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same FILE REFERENCE: P2730PIC57 CURRENT APPLICATION NUMBER: US/09/989,732 CURRENT FILING DATE: 2001-11-19 PRIOR APPLICATION NUMBER: 60/049787 PRIOR FILING DATE: 1997-06-16 PRIOR APPLICATION NUMBER: 60/062250 PRIOR FILING DATE: 1997-10-17 PRIOR APPLICATION NUMBER: 60/065186 PRIOR FILING DATE: 1997-11-12 PRIOR APPLICATION NUMBER: 60/065311 PRIOR FILING DATE: 1997-11-13 PRIOR APPLICATION NUMBER: 60/066770 PRIOR FILING DATE: 1997-11-24 PRIOR APPLICATION NUMBER: 60/075945</p>							

; PRIOR APPLICATION NUMBER: 60/089598
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; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 3; Length 117;

Best Local Similarity 88.6%; Pred. No. 2,2e-13;

Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MPSPTGVCSSLLGLMLDLAMAGSSFLSPHQRVQVRPPHKAP 44

Db 1 MPSPTGVCSSLLGLMLDLAMAGSSFLSPHQRVQVRPPHKAP 44

RESULT 12

US-09-991-073-268

; Sequence 268, Application US/09991073

; Patent No. US2002012756A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.

; APPLICANT: Baker, Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Fong, Sherman

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: P2730PIC15

; CURRENT APPLICATION NUMBER: US/09/991,073

; CURRENT FILING DATE: 2001-11-14

; PRIOR APPLICATION NUMBER: 60/049787

; PRIOR FILING DATE: 1997-06-16

; PRIOR APPLICATION NUMBER: 60/062250

; PRIOR FILING DATE: 1997-10-17

; PRIOR APPLICATION NUMBER: 60/065186

; PRIOR FILING DATE: 1997-11-12

; PRIOR APPLICATION NUMBER: 60/065311

; PRIOR FILING DATE: 1997-11-13

; PRIOR APPLICATION NUMBER: 60/066770

; PRIOR FILING DATE: 1997-11-24

; PRIOR APPLICATION NUMBER: 60/075945

; PRIOR FILING DATE: 1998-02-25

; PRIOR APPLICATION NUMBER: 60/078910

; PRIOR FILING DATE: 1998-03-20

; PRIOR APPLICATION NUMBER: 60/083322

; PRIOR FILING DATE: 1998-04-28

; PRIOR APPLICATION NUMBER: 60/084600

; PRIOR FILING DATE: 1998-05-07

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73	PRIOR FILING DATE: 1998-07-07	

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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match          31.9%; Score 198; DB 3; Length 117;
Best Local Similarity 88.6%; Pred. No. 2.2e-13;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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DB 1 MSPSGTVCSSLLGLMLDLAMAGSSFLSPHQRVQVRPPHKAP 44
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RESULT 13
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; Sequence 268, Application US/09990442
; Patent No. US20020132252A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC8
; CURRENT APPLICATION NUMBER: US/09/990,442
; PRIOR FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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56	PRIOR APPLICATION NUMBER: 60/091633	
57	PRIOR FILING DATE: 1998-07-02	
58	PRIOR APPLICATION NUMBER: 60/091978	
59	PRIOR FILING DATE: 1998-07-07	
60	PRIOR APPLICATION NUMBER: 60/091982	
61	PRIOR FILING DATE: 1998-07-07	
62	PRIOR APPLICATION NUMBER: 60/092182	
63	PRIOR FILING DATE: 1998-07-09	

BEST LOCAL SIMILARITY 88.6%; PRED. NO. 2.2E-13;
 MATCHES 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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RESULT 15
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; Sequence 268, Application US/09993604
; Patent No. US20020137075A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Borstein, David
; APPLICANT: Besnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730PIC25
; CURRENT APPLICATION NUMBER: US/09/993,604
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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; PRIOR FILING DATE: 1998-06-22
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; PRIOR FILING DATE: 1998-06-23

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;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 3; Length 117;

Best Local Similarity 88.6%; Pred. No. 2.2e-13;

Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MPSPGTVCSSLLGLMLDLAMAGSSFLSPHQVQVPPHAP 44
Db 1 MPSPGTVCSSLLGLMLDLAMAGSSFLSPHQVQVPPHAP 44

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Job time : 177 secs

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GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

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149.493 Million cell updates/sec

Title: US-10-659-782B-32

Perfect score: 620

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Total number of hits satisfying chosen parameters: 112942

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	198	31.9	117	7	US-11-255-699-6
2	78	12.6	28	7	US-11-257-498-33
3	75.5	12.2	135	6	US-10-953-349-30240
4	75	12.1	28	7	US-11-257-498-40
5	75	12.1	28	7	US-11-257-498-42
6	75	12.1	349	6	US-10-953-349-11453
7	74.5	12.0	940	6	US-10-449-902-41125
8	72	11.6	28	7	US-11-257-498-35
9	72	11.6	161	6	US-10-953-349-34518
10	71	11.5	28	7	US-11-257-498-34
11	70.5	11.4	307	7	US-11-293-697-4423
12	70	11.3	164	6	US-10-953-349-34530
13	70	11.3	164	7	US-11-241-596-129
14	69	11.1	163	7	US-11-241-596-125
15	68.5	11.0	365	7	US-11-293-697-4423
16	67	10.8	391	7	US-11-174-307B-5468
17	67	10.8	728	6	US-10-449-902-47151
18	66.5	10.7	349	6	US-10-511-937-2541
19	66.5	10.7	349	6	US-10-511-937-2958
20	66	10.6	223	7	US-11-293-697-4423
21	66	10.6	315	6	US-10-449-902-45650
22	66	10.6	327	6	US-10-449-902-37038
23	66	10.6	327	6	US-10-449-902-37253
24	66	10.6	327	6	US-10-449-902-37295
25	66	10.6	327	6	US-10-449-902-47166

26 65.5 10.6 104 6 US-10-449-902-42105 Sequence 42105, A
27 65.5 10.6 918 6 US-10-449-902-47061 Sequence 47061, A
28 65.5 10.6 1137 6 US-10-953-349-518 Sequence 518, App
29 65 10.5 136 6 US-10-953-349-34519 Sequence 34519, A
30 65 10.5 157 6 US-10-449-902-39607 Sequence 39607, A
31 64.5 10.4 748 7 US-11-293-697-3747 Sequence 3747, Ap
32 64.5 10.4 780 6 US-10-449-902-44082 Sequence 44082, A
33 64.5 10.4 791 6 US-10-449-902-51140 Sequence 51140, A
34 64.5 10.4 791 6 US-10-449-902-53452 Sequence 53452, A
35 64 10.3 13 7 US-11-257-498-47 Sequence 47, Appl
36 64 10.3 485 6 US-10-449-902-37358 Sequence 37358, A
37 64 10.3 538 6 US-10-449-902-37988 Sequence 37988, A
38 64 10.3 2074 7 US-11-165-586-21 Sequence 21, Appl
39 63.5 10.2 478 6 US-10-449-902-38265 Sequence 38265, A
40 63.5 10.2 838 6 US-10-449-902-45252 Sequence 45252, A
41 63 10.2 268 7 US-11-293-697-4048 Sequence 4048, Ap
42 63 10.2 303 7 US-11-181-115-1 Sequence 1, Appl
43 63 10.2 303 7 US-11-181-115-44 Sequence 44, Appl
44 63 10.2 303 7 US-11-105-233-156 Sequence 156, App
45 63 10.2 307 7 US-11-306-504-3 Sequence 3, Appl

ALIGNMENTS

RESULT 1

US-11-255-699-6
; Sequence 6, Application US/112555699
; Publication No. US20060105393A1
; GENERAL INFORMATION:
; APPLICANT: APPEL, CHRISTIAN
; APPLICANT: ENDERLE, THILO
; APPLICANT: ZOFFMANN, SANNAH JENSEN
; APPLICANT: PENSKI, MIREILLE
; TITLE OF INVENTION: LIGAND-RECEPTOR TRACKING ASSAYS
; FILE REFERENCE: 22817
; CURRENT APPLICATION NUMBER: US/11/255,699
; CURRENT FILING DATE: 2005-10-21
; PRIOR APPLICATION NUMBER: EP 04105285.3
; PRIOR FILING DATE: 2004-10-25
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 6
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-255-699-6

Query Match 31.9%; Score 198; DB 7; Length 117;
Best Local Similarity 88.6%; Pred No. 2.2e-14;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MPSPGTVCSSLLGLMLDLAMAGSSFLSPERHQVQVRPPHKAP 44
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DB 1 MPSPGTVCSSLLGLMLDLAMAGSSFLSPERHQVQVRPPHKAP 44
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RESULT 2

US-11-257-498-33
; Sequence 33, Application US/11257498
; Publication No. US20060088550A1
; GENERAL INFORMATION:
; APPLICANT: Bachmann, Martin F
; APPLICANT: Fulurija, Alma
; APPLICANT: Saudan, Philippe
; TITLE OF INVENTION: Gastric Inhibitory Polypeptide (GIP) Antigen Arrays and Used the
; FILE REFERENCE: 1700.0540001
; CURRENT APPLICATION NUMBER: US/11/257,498
; CURRENT FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,465
; PRIOR FILING DATE: 2004-10-25
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2

; APPLICANT: National Institute of Agrobiological Sciences.
; APPLICANT: Bio-oriented Technology Research Advancement
; APPLICANT: The Institute of Physical and Chemical Research.
; APPLICANT: Foundation for Advancement of International Science.
; TITLE OF INVENTION: FULL-LENGTH PLANT CDNA AND USES THEREOF
; FILE REFERENCE: MOA-A0205Y1-US
; CURRENT APPLICATION NUMBER: US/10/449,902
; CURRENT FILING DATE: 2003-05-29
; PRIOR APPLICATION NUMBER: JP 2002-203269
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: JP 2002-383870
; PRIOR FILING DATE: 2002-12-11
; NUMBER OF SEQ ID NOS: 56791
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41125
; LENGTH: 940
; TYPE: PRT
; ORGANISM: Oryza sativa
US-10-449-902-41125

Query Match 12.0%; Score 74.5; DB 6; Length 940;
Best Local Similarity 25.8%; Pred. No. 4.4;
Matches 32; Conservative 14; Mismatches 53; Indels 25; Gaps 4;
QY 2 PSPGTVCILLICMLWLDLWAGSFLSPEHOR-----VQVRPPHKA-----PHVVPAL 50
DB 385 PSPKSASLSALRSRGLQPSLQAPAPRDLGINKSIQANPVHPSIAALHAQTAPHQ 444
QY 51 PLSNQLCDLEQORHLWASVFSQSTKDSGLTSGRTWGLRVNLRLFPSPSSRRSRSHQ 110
DB 445 PLSTPEALVKAARLSGALFSSSS-----SSLT-----LNTIASTSPSERAGMAHS 490
QY 111 PSCS 114
DB 491 PSLS 494

RESULT 8
US-11-257-498-35
; Sequence 35, Application US/11257498
; Publication No. US20060088550A1
; GENERAL INFORMATION:
; APPLICANT: Bachmann, Martin F
; APPLICANT: Fudurija, Alma
; APPLICANT: Saudan, Philippe
; TITLE OF INVENTION: Gastric Inhibitory Polypeptide (GIP) Antigen Arrays and Used therefor
; FILE REFERENCE: 1700.0540001
; CURRENT APPLICATION NUMBER: US/11/257,498
; CURRENT FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,465
; PRIOR FILING DATE: 2004-10-25
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Canis familiaris
US-11-257-498-35

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Best Local Similarity 66.7%; Pred. No. 0.13;
Matches 14; Conservative 2; Mismatches 5; Indels 0; Gaps 0;
QY 24 GSSFLSPEHQVRQVRPPHAP 44
DB 1 GSSFLSPEHQVRQVRPPHAP 21

RESULT 9
US-10-953-349-34518
; Sequence 34518, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:

; APPLICANT: ALEXANDROV, Nikolai et al.
; TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
; TITLE OF INVENTION: ENCODED THERBY
; FILE REFERENCE: 2750-1579PUS2
; CURRENT APPLICATION NUMBER: US/10/953,349
; CURRENT FILING DATE: 2004-09-30
; NUMBER OF SEQ ID NOS: 40252
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 34518
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
US-10-953-349-34518

Query Match 11.6%; Score 72; DB 6; Length 161;
Best Local Similarity 24.8%; Pred. No. 1;
Matches 27; Conservative 14; Mismatches 40; Indels 28; Gaps 4;
QY 28 LSPEHORVQVR-----PHKAPHVVP---ALPLSNQLCDLEQORHLWASV----- 69
DB 11 LTDHHRURSRRAATAAAAAAPHAYSSLPVGAARPLSGSTVSFGASCHKWKVKVPWRLHC 70
QY 70 ----FSQSTKDSGLTSGRTWGLRVNLRLFPSPSSRRSRSHQSCS 114
DB 71 VTEDEAEVKDFGVNMAISMLKFKYKREISPLLPSSCR-----YVPTCS 113

RESULT 10
US-11-257-498-34
; Sequence 34, Application US/11257498
; Publication No. US20060088550A1
; GENERAL INFORMATION:
; APPLICANT: Bachmann, Martin F
; APPLICANT: Fudurija, Alma
; APPLICANT: Saudan, Philippe
; TITLE OF INVENTION: Gastric Inhibitory Polypeptide (GIP) Antigen Arrays and Used therefor
; FILE REFERENCE: 1700.0540001
; CURRENT APPLICATION NUMBER: US/11/257,498
; CURRENT FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,465
; PRIOR FILING DATE: 2004-10-25
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 34
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-257-498-34

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Best Local Similarity 66.7%; Pred. No. 0.17;
Matches 14; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
QY 24 GSSFLSPEHQVRQVRPPHAP 44
DB 1 GSSFLSPEHQVRQVRPPHAP 21

RESULT 11
US-11-293-697-4423
; Sequence 4423, Application US/11293697
; Publication No. US20060105376A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/11/293,697
; CURRENT FILING DATE: 2005-12-05
; PRIOR APPLICATION NUMBER: US/10/108,260
; PRIOR FILING DATE: 2002-03-28
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4423


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; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (146)..(146)
; OTHER INFORMATION: Xaa is any aa, unknown or other
US..11-241-596-129

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Db	3	LTSSWPWPSP	LPSPPLPSPHORQAPWSEGGSPCAPLSARPPPPQWLPA	CPUPA 62
QY	50	LPLSNGLCDLEQQORHLWASVFS	TKD-----SGSDLTVSGRTWGLRLV	NRL-- 96
Db	63	VPWPRCC-----	WAQATAGSSSSPASPSPRPATPSHRTTPASRTTSSSTX	TRCRA 114
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RESULT 14
US-11-241-596-125
; Sequence 125, Application US/11241596
; Publication No. US20060134786A1
; GENERAL INFORMATION:
; APPLICANT: Feldmann, Kenneth A.
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL
; TITLE OF INVENTION: FOR MODIFYING PLANT CHARACTERISTICS
; FILE REFERENCE: 2750-2191PUS2
; CURRENT APPLICATION NUMBER: US/11/241,596
; CURRENT FILING DATE: 2005-09-30
; PRIOR APPLICATION NUMBER: 60/615,081
; PRIOR FILING DATE: 2004-09-30
; NUMBER OF SEQ ID NOS: 259
; SEQ ID NO 125
; LENGTH: 163
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; ORGANISM: Zea mays subsp. mays
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; NAME/KEY: misc_feature
; LOCATION: (1)..(163)
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; OTHER INFORMATION: GI NO: 41400384
; OTHER INFORMATION: NR Description: plus agglutinin [Chlamydomonas reinhardtii]
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; NAME/KEY: misc_feature
; LOCATION: (6)..(138)
; OTHER INFORMATION: GI NO: 12018149
; OTHER INFORMATION: NR Description: gamete-
; OTHER INFORMATION: specific hydroxyproline-rich glycoprotein a2
; OTHER INFORMATION: [Chlamydomonas reinhardtii]
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3)..(142)
; OTHER INFORMATION: GI NO: 30387315
; OTHER INFORMATION: NR Description: unknown [Choristoneura fumiferana MNPV]
; FEATURE:

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GenCore version 5.1.9
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Ygapop 10.0 , Ygapext 0.5
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Delop 6.0 , Delext 7.0

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Maximum Match 100%
Listing first 45 summaries

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-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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3: Geneseq2000s:*
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5: Geneseq2002s:*
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9: Geneseq2005s:*
10: Geneseq2006s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES						
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4	204	31.7	117	2	AAW87991	Protein d
5	204	31.7	117	3	AAV87236	Human sig
6	204	31.7	117	4	AAB20101	Zsig33 pr
7	204	31.7	117	4	AAB26649	Human zsi
8	204	31.7	117	4	AAM38890	Human pol

9	204	31.7	117	4	AAB60511	Human ghr
10	204	31.7	117	5	ABE78319	Anino aci
11	204	31.7	117	5	AAE23838	Human zsi
12	204	31.7	117	5	AAE15883	Human zsi
13	204	31.7	117	6	ABU58046	Human PRO
14	204	31.7	117	6	ABU59124	Novel hum
15	204	31.7	117	6	ABU82636	Human sec
16	204	31.7	117	6	ABO17836	Novel hum
17	204	31.7	117	6	ABU60555	Human sec
18	204	31.7	117	6	ABU13937	Human PRO
19	204	31.7	117	6	ABU81090	Human PRO
20	204	31.7	117	6	ABU72522	Novel hum
21	204	31.7	117	6	ABU66790	Human PRO
22	204	31.7	117	6	ABU59871	Novel sec
23	204	31.7	117	6	ABU59271	Human sec
24	204	31.7	117	6	ABO25968	Human PRO
25	204	31.7	117	6	ABO25061	Human sec
26	204	31.7	117	6	ABU58977	Human sec
27	204	31.7	117	6	ABU92355	Novel hum
28	204	31.7	117	6	AAE33409	Human pre
29	204	31.7	117	6	ABU59420	Novel hum
30	204	31.7	117	6	ABU67066	Human sec
31	204	31.7	117	6	ABU92186	Novel hum
32	204	31.7	117	6	ABU10892	Human PRO
33	204	31.7	117	6	ABU1644	Novel hum
34	204	31.7	117	6	ABU88583	Human sec
35	204	31.7	117	6	ABO34097	Human PRO
36	204	31.7	117	6	ADA45961	Novel hum
37	204	31.7	117	6	ADA76392	Human PRO
38	204	31.7	117	6	ADA19042	Human PRO
39	204	31.7	117	6	ADA61665	Homo sapi
40	204	31.7	117	6	ADB19450	Novel hum
41	204	31.7	117	6	ADB27991	Human PRO
42	204	31.7	117	6	ADA86470	Novel hum
43	204	31.7	117	6	ADB16034	Human PRO
44	204	31.7	117	6	ADA37779	Human sec
45	204	31.7	117	6	ADA47820	Human PRO

ALIGNMENTS

RESULT 1
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ID ADY78074 standard; protein; 116 AA.
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AC ADY78074;
XX
DT 02-JUN-2005 (first entry)
XX
DE Human ghrelin variant 2 protein, SEQ ID NO: 32.
XX
KW Diagnosis; obesity; anorectic; nutritional disorder; diabetes;
KW antidiabetic; endocrine disease; metabolic disorder;
KW gastrointestinal disease; drug screening; gene therapy; ghrelin.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Misc-difference 64..65
FT /note= "Encoded by CATCTCTGG"
XX
FN US2005059015-A1.
XX
PD 17-MAR-2005.
XX
PF 11-SEP-2003; 2003US-00659782.
XX
PR 11-SEP-2003; 2003US-00659782.
XX
PA (MINTZ/) MINTZ L.
XX
PI Mintz L;
XX

DR WPI; 2005-240894/25.
XX N-PSDB; ADY78053.
PT New isolated nucleic acid and encoded amino acid sequences useful for
PT diagnosing, monitoring and treating obesity and/or diabetes, or in drug
PT screening purposes.
XX
XX
PS Claim 32; SEQ ID NO 32; 74pp; English.
XX
CC The invention relates to alternative splice variants of the obesity
CC and/or diabetes related genes and their corresponding proteins. The
CC invention also relates to compositions, reagents, kits and methods for
CC diagnosing, monitoring and treating obesity and/or diabetes. The
CC composition and methods are useful for diagnosing, monitoring and
CC treating obesity and/or diabetes. These may also be used in drug
CC screening purposes and in gene therapy. The present sequence is the human
CC ghrelin (GRL) variant protein. This protein is encoded by an obesity and
XX diabetes related gene.
XX
SQ Sequence 116 AA;

Alignment Scores:
Pred. No.: 1.12e-57 Length: 116
Score: 605.50 Matches: 116
Percent Similarity: 99.1% Conservative: 0
Best Local Similarity: 99.1% Mismatches: 0
Query Match: 94.0% Indels: 1
DB: 9 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x ADY78074 (1-116)

QY 1 ATGCCCTCCCGAGGACCGTCTGCAGCTCTCTGCTCTCTCGCATGCTCTGGTGGACTTG 60
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 61 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACAGAGAGTCCAGGTGAGACTCC 120
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGlnValArgProPro 40
QY 121 CACAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACAGCTCTGTGACCTGGAG 180
Db 41 HisLysAlaProHisValValProAlaLeuProLeuSerAsnGlnLeuCysAspLeuGlu 60
QY 181 CAGCAGCCCATCTCTGGGCTTCACTCTTCTCCAGAGACACAAAGGACTCTGGGCTGAC 240
Db 61 GlnGlnArgHis---TrpAlaSerValPheSerGlnSerThrLysAspSerGlySerAsp 79
QY 241 CTCACGTGTTTCTGGAAGGACATGGGGCTTAGAGTCTTAAACAGACTGTTTCCCTTCC 300
Db 80 LeuThrValSerGlyArgThrTrpGlyLeuArgValLeuAsnArgLeuPheProProSer 99
QY 301 AGCAGAGAAAGAGTCTGAAGAGCCACAGCCCAAGCTCAGCCCGAGCTC 351
Db 100 SerArgGluArgSerArgArgSerHisGlnProSerCysSerProGluLeu 116

RESULT 2
ADK66754
ID ADK66754 standard; protein; 60 AA.

XX AC
XX ADK66754;
XX
DT 06-MAY-2004 (first entry)
XX
DE Human ghrelin protein #1.
XX
XX Growth; appetite; fatness; genotype; polymorphism; ghrelin protein;
KW breeding; human.
XX
XX Homo sapiens.
XX
XX US2003211512-A1.
XX
XX 13-NOV-2003.

XX 14-NOV-2002; 2002US-00294191.
XX
XX 14-NOV-2001; 2001US-0333222P.
XX
XX (ROTH/) ROTHCHILD M F.
PA (KIMK/) KIM K.
PA (ANDE/) ANDERSON L L.
XX
XX Rothschild MF, Kim K, Anderson LL;
PI WPI; 2004-010667/01.
XX
XX Screening animals (i.e. pigs) to determine those more likely to produce
XX desired growth, appetite and fatness to optimize breeding and selection
XX PT techniques comprising detecting the presence of a polymorphism in the
XX PT Ghrelin gene.
XX
XX PS Disclosure; SEQ ID NO 3; 24pp; English.
XX
XX The present invention relates to a method of screening animals to
XX determine those more likely to produce desired growth, appetite and
XX fatness which involves obtaining a sample of genetic material from the
XX animal and assaying for the presence of a genotype in the animal which is
XX associated with favourable growth, appetite and fatness, the genotype
XX characterised by a polymorphism in the ghrelin gene. The composition and
XX methods are useful in screening animals (i.e. pigs) to determine those
XX more or less likely to produce desired growth, appetite and fatness to
XX optimise breeding and selection techniques. The present sequence is human
XX ghrelin protein of the invention.
XX
SQ Sequence 60 AA;

Alignment Scores:
Pred. No.: 1.87e-13 Length: 60
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 8 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x ADK66754 (1-60)

QY 1 ATGCCCTCCCGAGGACCGTCTGCAGCTCTCTGCTCTCTCGCATGCTCTGGTGGACTTG 60
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 61 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACAGAGAGTCCAGGTGAGACTCC 120
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 121 CACAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACAGCTCTGTGACCTGGAG 180
Db 37 ----- 37
QY 181 CAGCAGCCCATCTCTGGGCTTCACTCTTCTCCAGAGACACAAAGGACTCTGGGCTGAC 240
Db 37 ----- 37
QY 241 CTCACGTGTTTCTGGAAGGACATGGGGCTTAGAGTCTTAAACAGACTGTTTCCCTTCC 300
Db 37 ----- 37
QY 301 AGCAGAGAAAGAGTCTGAAGAGCCACAGCCCAAGCTCAGCCCGAGCT 350
Db 38 -----ArgLysGluSerLysLysProProAlaLysLeuGlnProArgAla 52

RESULT 3
AAE33410
ID AAE33410 standard; protein; 91 AA.
XX
XX AC AAE33410;
XX

DT 02-APR-2003 (first entry)
XX Human exon 3-deleted ghrelin protein.
DE Ghrelin; preproghrelin; GHS-R 1b; benign prostatic hyperplasia; therapy;
XX breast; cervical; uterine; choriocarcinoma; prostate; ovary; cytostatic;
KW cancer; human.
KW Homo sapiens.
OS
XX
XX WO200290387-A1.
PN
XX
PD 14-NOV-2002.
XX
XX 10-MAY-2002; 2002WO-AU000582.
PF
XX 10-MAY-2001; 2001AU-00004919.
PR 17-DEC-2001; 2001AU-00009567.
PR
XX (UYQU-) UNIV QUEENSLAND TECHNOLOGY.
PA
XX Chopin LK, Jeffery PL, Herington AC;
PI
XX WPI; 2003-111957/10.
DR
DR N-PSDB; AAD50726.
XX
XX Identifying a cancer cell or tissue for treating prostate, ovarian,
PT breast cancer, or benign prostatic hyperplasia, by detecting the
PT expression of a ghrelin, an exon-3 deleted preproghrelin and/or a GHS-R
PT 1b proteins or nucleic acids.
XX
XX Claim 14; Page 34; 50pp; English.
PS
XX The invention relates to a method for identifying a cancer cell or tissue
CC of the reproductive system by detecting expression of a ghrelin, an exon-
CC 3 deleted preproghrelin and/or a GHS-R 1b proteins or nucleic acids. The
CC antibodies, exon 3-deleted form of preproghrelin and nucleic acids are
CC useful for treating cancer of the reproductive system such as prostate,
CC ovarian, breast, cervical or uterine cancer, choriocarcinoma or benign
CC prostatic hyperplasia. The present sequence is human exon 3-deleted
CC ghrelin protein
XX
SQ Sequence 91 AA;

Alignment Scores:
Pred. No.: 2,08e-13 Length: 91
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 6 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x AAE33410 (1-91)

QY 1 ATGCGCTCCCGAGGACCTGTCAGCCTCTGCTCGGCATGCTGGCTGGACTG 60
Db 1 MetProserProglyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20

QY 61 GCATGGCAGGCTCCAGCTTCTGAGCCCTGAAACACAGAGAGTCCAGGTGAGACCTCCC 120
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37

QY 121 CACAAGGCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACGCTGTGACCTGGAG 180
Db 37 ----- 37

QY 181 CAGCAGCGCATCTCTGGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGTCTGAC 240
Db 37 ----- 37

QY 241 CTCACGTGTTTCTGGAAGACATGGGGGCTTAGAGTCTCTAAACAGACTGTTCCCTCC 300
Db 37 ----- 37

QY 301 AGCAGAGAAAGGAGTCCGAAGAGAGCCACAGCCCAAGCTGCAGCCCCGAGCT 350
Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52

RESULT 4
AAW87991
ID AAW87991 standard; protein; 117 AA.
XX
AC AAW87991;
XX
DT 07-APR-1999 (first entry)
XX
DE Protein designated zsig33.
XX
KW Zsig33; gastric motility; gastrointestinal inflammation; reflux disease;
KW nutrient absorption regulation; obesity; metabolic disorder.
XX
OS Homo sapiens.
XX
XX Key Location/Qualifiers
FH Peptide 1..23
FT /note= "signal peptide"
FT Protein 24..117
FT /note= "mature protein"
XX
XX WO9842840-A1.
PN
XX
XX 01-OCT-1998.
PD
XX 23-MAR-1998; 98WO-US005620.
XX
XX 24-MAR-1997; 97US-0041102P.
PR 24-MAR-1997; 97US-00822897.
PR
XX (ZYMO) ZYMOGENETICS INC.
PA
XX Sheppard PO, Delsher TA;
PI
XX WPI; 1999-070071/06.
DR N-PSDB; AAX04550.
DR
XX
XX Human polypeptide having homology to motilin, zsig33 - useful e.g. to
PT treat gastrointestinal motility disorders, obesity etc. and to identify
PT antagonists to treat gastrointestinal hypermotility.

Claim 13; Page 55-56; 69pp; English.

The present sequence represents a protein designated Zsig33. The nucleic
acids are strongly expressed in stomach tissue. The polypeptide (or
allelic variants/orthologs) can be used to stimulate gastric motility,
measured as increased transit time or gastric emptying of an ingested
substance in mammals. The products are used to treat disorders associated
with gastrointestinal cell contractility, secretion of digestive
enzymes/acids, gastrointestinal motility, recruitment of digestive
enzymes, gastrointestinal inflammation, reflux disease and nutrient
absorption regulation. Zsig33 polypeptides may also be important
neurologically, since the family of gut-brain peptides to which the
homologous protein motilin belongs has been associated with neurological
and CNS functions. They may therefore be used e.g. to regulate satiety or
treat obesity and other metabolic disorders where neurological feedback
modulates nutritional absorption. They are useful to identify zsig33
agonists, antagonists and ligands and to produce antibodies

```
US-10-659-782B-11_COPY_112_462 (1-351) x AAY87991 (1-117)
QY 1 ATGCCCTCCAGGACCGTCTGACGCTCTGCTCTCGGCATGCTCTGGCTGGACTTG 60
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 61 GCCATGGCAGGCTCCAGCTCTCTGAGCCCTGAACACACAGAGAGTCCAGGTGAGACCTCCC 120
Db 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnA-gValGln--Gln----- 37
QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACAGCTCTGTGACCTGGAG 180
Db 37 ----- 37
QY 181 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGACACAAAGGACTCTGGGTCTGAC 240
Db 37 ----- 37
QY 241 CTCACTGTTTCTGGAAGGACATGGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCCCTTCC 300
Db 37 ----- 37
QY 301 AGCAGAGAAAGAGTCTGAAGAAGCCACAGCAGCTGACGACCTGCGAGCT 350
Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52

RESULT 5
AAY87236
ID AAY87236 standard; protein; 117 AA.
XX
AC AAY87236;
XX
DT 11-MAY-2000 (first entry)
XX
DE Human signal peptide containing protein HSPB-13 SEQ ID NO:13.
XX
KW Human; signal peptide-containing protein; HSPB; diagnosis; cancer;
KW inflammation; cardiovascular disease; anticancer; anti-inflammatory;
KW antimicrobial; neurotropic; neuroprotective; cardiovascular; hepatotropic;
KW antiasthmatic; gene therapy; cell proliferation; neurological disorder;
KW reproductive disorder; developmental disorder; arteriosclerosis;
KW cirrhosis; psoriasis; acquired immune deficiency syndrome; anaemia;
KW asthma; Crohn's disease; infection; Alzheimer's disease; schizophrenia;
KW Parkinson's disease; Huntington's diseases; ovulatory defect;
KW muscular dystrophy.
XX
OS Homo sapiens.
XX
PN WO200000610-A2.
XX
PD 06-JAN-2000.
XX
PF 25-JUN-1999; 99WO-US014484.
XX
PR 26-JUN-1998; 98US-0090762P.
PR 31-JUL-1998; 98US-0094983P.
PR 01-OCT-1998; 98US-0102686P.
PR 11-DEC-1998; 98US-0112129P.
XX
PA (INCY-) INCYTE PHARM INC.
XX
PI Lal P, Tang YT, Gorgone GA, Corley NC, Guegler KJ, Baughn MR;
PI Akerblom IE, Au-Young J, Yue H, Patterson C, Reddy R, Hillman JL;
PI Bandman O;
XX
DR WPI; 2000-160673/14.
DR N-PSDB; AAZ98121.
XX
PT New human signal peptide-containing proteins useful in treatment,
PT prevention and diagnosis of e.g. cancer, inflammation and cardiovascular
PT disease.
XX
```

Claim 1; Page 168-169; 327pp; English.

AAZ98109 to AAZ98242 encode AAY87224 to AAY87357 which represent the human signal peptide-containing proteins HSPB-1 to HSPB-134. HSPBs have anticancer, anti-inflammatory, antimicrobial, neurotropic, hepatotropic, neuroprotective, cardiovascular and antiasthmatic activities, and can be used in gene therapy. HSPBs can be used to treat or prevent disorders associated with decreased activity or function of HSPB. Antagonists of HSPB are used to treat or prevent disorders associated with increased activity or function of HSPB. Such diseases include cell proliferation (including cancer), inflammation, cardiovascular, neurological, cirrhosis, psoriasis, acquired immune deficiency syndrome, anaemia, asthma, Crohn's disease, microbial or other infections, congestive or ischaemic heart disease, Alzheimer's, Parkinson's or Huntington's diseases, schizophrenia, ovulatory defects, muscular dystrophy). HSPB nucleic acids can be used for the recombinant production of HSPB, for detecting HSPB in standard hybridisation and amplification assays (for diagnosis and monitoring), in gene therapy, as antisense, triplex-forming or ribozyme therapeutics, for detecting related sequences or genetic variations, and for chromosomal mapping. HSPB are also used to raise specific antibodies (Ab) and to screen for agonists and antagonists (potential therapeutic agents). Ab are used to diagnose, or monitor, HSPB -related diseases (in usual immunoassays), as therapeutic antagonists, in competitive drug screens, and for purification of HSPB from natural sources

XX Sequence 117 AA;

Alignment Scores:

Pred. No.:	2.23e-13	Length:	117
Score:	204.00	Matches:	51
Percent Similarity:	44.1%	Conservative:	1
Best Local Similarity:	43.2%	Mismatches:	0
Query Match:	31.7%	Indels:	66
DB:	3	Gaps:	1

US-10-659-782B-11_COPY_112_462 (1-351) x AAY87236 (1-117)

QY 1 ATGCCCTCCAGGACCGTCTGACGCTCTGCTCTCGGCATGCTCTGGCTGGACTTG 60

Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20

QY 61 GCCATGGCAGGCTCCAGCTCTCTGAGCCCTGAACACACAGAGAGTCCAGGTGAGACCTCCC 120

Db 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnA-gValGln--Gln----- 37

QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACAGCTCTGTGACCTGGAG 180

Db 37 ----- 37

QY 181 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGACACAAAGGACTCTGGGTCTGAC 240

Db 37 ----- 37

QY 241 CTCACTGTTTCTGGAAGGACATGGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCCCTTCC 300

Db 37 ----- 37

QY 301 AGCAGAGAAAGAGTCTGAAGAAGCCACAGCAGCTGACGACCTGCGAGCT 350

Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52

RESULT 6

AAZ20101

ID AAZ20101 standard; protein; 117 AA.

XX

AC AAZ20101;

XX

DT 23-APR-2001 (first entry)

XX

DE Zsig33 protein.

XX

CC gastrointestinal disorders, and stimulating glucose-induced insulin
CC release in a mammal. The present sequence represents the human zsig33
CC polypeptide, a peptide ligand for the G-protein coupled receptor, GHS-R
XX

SQ Sequence 117 AA;

Alignment Scores:

Pred. No.: 2.23e-13 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 4 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x AAB62649 (1-117)

QY 1 ATGCCCTCCCGAGGACCGTCTGCAGCTCTGCTCTCGGATGCTCTGGCTGGACTTG 60
DB 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 61 GCCATGGCAGCTCCAGCTCTGAGCCCTGAACACACAGAGTCCAGGTGAGACTCCC 120
DB 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnA-gValGln--Gln----- 37
QY 121 CACAAAGCCCATCATGTTGTTCCAGCCCTGCCACTTAGCAACACAGCTCTGTGACCTGGAG 180
DB 37 ----- 37
QY 181 CAGCAGCCCATCTCTGGGCTTACGTTCTCCAGAGACAAAGGACTCTGGGCTTGAC 240
DB 37 ----- 37
QY 241 CTCACCTGTTCTTGAAGGACATGGGGCTTAGAGTCTTAACAGACTGTTTCCCTTCC 300
DB 37 ----- 37
QY 301 AGCAGAGAAGGAGTCTGAAGAGCCACACAGCAAGCTCGAGCCCGAGCT 350
DB 38 -----ArgLysGluSerLysLysProAlaLysLeuGlnProArgala 52

RESULT 8

AAM38890
ID AAM38890 standard; protein; 117 AA.

XX AAM38890;

XX 22-OCT-2001 (first entry)

XX Human polypeptide SEQ ID NO 2035.

DE Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
KW peripheral nervous system; neuropathy; central nervous system; CNS;
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
leukaemia.

XX Homo sapiens.

XX WO200153312-A1.

XX 26-JUL-2001.

XX 26-DEC-2000; 2000WO-US034263.

XX 23-DEC-1999; 99US-00471275.

PR 21-JAN-2000; 2000US-00488725.

PR 25-APR-2000; 2000US-0052317.

PR 20-JUN-2000; 2000US-00598042.

PR 19-JUL-2000; 2000US-00620312.

PR 03-AUG-2000; 2000US-00653450.

PR 14-SEP-2000; 2000US-00662191.

PR 19-OCT-2000; 2000US-00693036.

PR 29-NOV-2000; 2000US-00727344.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J, Zhao QA;
PI Zhou P, Goodrich R, Drmanac RT;

XX WPI; 2001-442253/47.

DR N-PSDB; AAI58046.

XX Novel nucleic acids and polypeptides, useful for treating disorders such
PT as central nervous system injuries.

XX Example 3; SEQ ID NO 2035; 10078pp; English.

XX The invention relates to human nucleic acids (AAI57798-AAI61369) and the
CC encoded polypeptides (AAM38642-AA42213) with nootropic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: Immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, leukaemias and
CC C.N.S disorders. Note: The sequence data for this patent did not form
CC part of the printed specification

XX SQ Sequence 117 AA;

Alignment Scores:

Pred. No.: 2.23e-13 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 4 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x AAM38890 (1-117)

QY 1 ATGCCCTCCCGAGGACCGTCTGCAGCTCTGCTCTCGGATGCTCTGGCTGGACTTG 60
DB 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20

QY 61 GCCATGGCAGCTCCAGCTCTGAGCCCTGAACACACAGAGTCCAGGTGAGACTCCC 120
DB 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnA-gValGln--Gln----- 37

QY 121 CACAAAGCCCATCATGTTGTTCCAGCCCTGCCACTTAGCAACACAGCTCTGTGACCTGGAG 180
DB 37 ----- 37

QY 181 CAGCAGCCCATCTCTGGGCTTACGTTCTCCAGAGACAAAGGACTCTGGGCTTGAC 240
DB 37 ----- 37

QY 241 CTCACCTGTTCTTGAAGGACATGGGGCTTAGAGTCTTAACAGACTGTTTCCCTTCC 300
DB 37 ----- 37

QY 301 AGCAGAGAAGGAGTCTGAAGAGCCACACAGCAAGCTCGAGCCCGAGCT 350
DB 38 -----ArgLysGluSerLysLysProAlaLysLeuGlnProArgala 52

RESULT 9

AAB60511

ID AAB60511 standard; protein; 117 AA.

XX AAB60511;

XX 24-APR-2001 (first entry)
DT Human ghrelin preproprotein, SEQ ID NO:5.
DE
XX Growth hormone secretagogue; GHS; ghrelin; precursor; preproprotein;
KW calcium concentration elevation; infant growth disorder;
KW growth hormone deficiency.
XX
OS Homo sapiens.
PN WO200107475-A1.
XX
PD 01-FEB-2001.
XX
PF 24-JUL-2000; 2000WO-JP004907.
XX
PR 23-JUL-1999; 99JP-00210002.
PR 29-NOV-1999; 99JP-00338841.
PR 26-APR-2000; 2000JP-00126623.
XX
XX (KANG/) KANGAWA K.
XX
XX Kangawa K, Kojima M, Hosoda H, Matsuo H, Minamitake Y;
XX WPI; 2001-159704/16.
DR N-PSDB; AAF59645.
XX
XX New peptide compounds which induce growth hormone secretion and elevate
PT cell calcium concentrations, useful in treatment and diagnosis of infant
PT growth disorders.
XX
PS Claim 3; Page 182; 210pp; Japanese.
XX
XX The invention relates to a novel peptide compound or its salt which
CC induces the secretion of growth hormone and/or elevates calcium ion
CC concentration in cells. The peptides are ghrelin homologues and are
CC characterised in that at least one amino acid has been substituted by a
CC modified amino acid and/or a non-amino acid compound. The invention also
CC encompasses the unmodified peptides; the DNA encoding the peptides;
CC vectors and host cells comprising such DNA; a method of producing the
CC peptides comprising recombinant production, optionally followed by
CC chemical modification; an antibody specific for a peptide of the
CC invention; and an assay and kit for detecting the peptides. The peptides
CC of the invention are useful for treating and/or diagnosing diseases
CC caused by a deficiency in growth hormone expression or activity. In
CC particular, they are useful for promoting infant growth due to growth
CC hormone deficiency. The compounds of the invention are safe with no
CC accompanying side effects. The present sequence represents a ghrelin-type
CC growth hormone secretagogue (GHS) precursor protein of the invention
XX
SQ Sequence 117 AA;

Alignment Scores:
Pred. No.: 2,23e-13 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: Gaps: 1

US-10-659-782b-11_copy_112_462 (1-351) x AAB60511 (1-117)

QY 1 ATGCGCTCCCGAGGACCGTCTGACGCTCTGCTCGGACGTCTGGTGGACTTG 60
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 61 GCATGGCGAGGCTCCAGCTTCTGAGCCCTGACACACAGAGTCCAGGTGAGACCTCCC 120
Db 21 AlaMetAlaGlySerPheLeuSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37

QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGACCTAGCAACGACGCTCTGTGACCTGGAG 180

Db 37 ----- 37
QY 181 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGTGTGAC 240
Db 37 ----- 37
QY 241 CTCACGTGTTTCTGGAAGGACATGGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCCCTTCC 300
Db 37 ----- 37
QY 301 AGCAGAGAAGGAGTCTGAAGAAGCCACAGCAAGCTGCAGCCCGAGCT 350
Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52
RESULT 10
ABB78319
ID ABB78319 standard; protein; 117 AA.
XX
AC ABB78319;
XX
DT 05-DEC-2002 (first entry)
XX
DE Amino acid sequence of a human zsig33.
XX
KW Short gastrointestinal peptide; SGIP; zsig33; motilin.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..23
FT Protein /note= "signal peptide"
FT /note= "mature protein"
XX
PN US6420521-B1.
XX
PD 16-JUL-2002.
XX
XX 30-JUN-2000; 2000US-00608810.
XX
PR 30-JUN-1999; 99US-0141592P.
XX
XX (ZYMO) ZYMOGENETICS INC.
XX
PI Sheppard PO, Jaspers SR, Deisher TA, Bishop PD;
XX WPI; 2002-634794/68.
DR N-PSDB; ABV72214.
XX
PT New Short Gastrointestinal Peptide, which has homology to motilin, useful
PT for preventing, diagnosing and treating gastrointestinal disorders.
XX
PS Disclosure; Col 39-40; 23pp; English.
XX
XX The present sequence represents human zsig33. The specification describes
CC a short gastrointestinal peptide (SGIP), which is derived from zsig33.
CC SGIP has homology to motilin. The SGIP peptide may be used in the
CC prevention, diagnosis and treatment of diseases associated with
CC inappropriate SGIP expression. For example, SGIP may be used to treat
CC disorders associated with decreased expression by rectifying mutations or
CC deletions in a patient's genome that affect the activity of SGIP by
CC expressing inactive proteins or to supplement the patient's own production
CC of SGIP. SGIP may also be used as an antigen in the production of
CC antibodies against SGIP and in assays to identify modulators of SGIP
CC expression and activity. The anti-SGIP antibodies, agonists and
CC antagonists may also be used to regulate expression and activity. The
CC anti-SGIP antibodies may also be used as diagnostic agents for detecting
XX the presence of SGIP in samples
SQ Sequence 117 AA;

Alignment Scores:
Pred. No.: 2,23e-13 Length: 117

Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 66
Query Match: 31.7% Indels: 66
DB: 5 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x ABB78319 (1-117)

QY 1 ATGCCCTCCCGAGGACGCTCGAGCTCTGCTCTCCGCGATCCTGGCTGGACTTG 60
|||||
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
|||||

QY 61 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACAGAGAGTCCAGGTGAGACCTCCC 120
|||||
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
|||||

QY 121 CACAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACAGCTCTGTGACCTGGAG 180
37 ----- 37

QY 181 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGCTGAC 240
37 ----- 37

QY 241 CTCACTGTTTCTGGAAGACATGGGGCTTAGAGTCTTAAACAGACTGTTTCCCTTCC 300
37 ----- 37

QY 301 AGCAGAGAAAGAGTCTGAAGAACCCAGCCAGCTGCAGCCCGAGCT 350
|||||
Db 38 -----ArgLysGluSerLysLysProProAlaLysLeuGlnProArgAla 52
|||||

RESULT 11
AAE23838
ID AAE23838 standard; protein; 117 AA.
XX
XX AAE23838;
XX
DT 10-SEP-2002 (first entry)
XX
DE Human zsig33 protein.
XX
KW Human; zsig33-like peptide; gastric contractility; nutrient uptake;
KW growth hormone; digestive enzyme; restorative therapy; gene therapy;
KW protein therapy; gastrointestinal; endocrine; anabolic.
XX
OS Homo sapiens.
XX
XX US2002055156-A1.
XX
XX 09-MAY-2002.
XX
PF 10-MAY-2001; 2001US-00853253.
XX
XX 11-MAY-2000; 2000US-0203300P.
XX
XX (JASP/) JASPERS S R.
PA (SHEP/) SHEPPARD P O.
PA (DEIS/) DEISHER T A.
PA (BISH/) BISHOP P D.
XX
XX Jaspers SR, Sheppard PO, Deisher TA, Bishop PD;
FI
XX WPI; 2002-443750/47.
XX
DR N-P8DB; AAD38238.
XX
XX ZSIG33-Like peptides and polynucleotides, useful for modulating gastric
PT contractility, nutrient uptake, growth hormones and/or secretion of
PT digestive/pancreatic enzymes and hormones.
XX
PS Disclosure; Page 27; 34pp; English.
XX
XX The invention relates to zsig33-like peptides and their corresponding

CC nucleic acids and methods for modulating gastric contractility, nutrient
CC uptake, growth hormones, secretion of digestive enzymes and hormones. The
CC sequences of the invention are used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate ZSIG33 expression.
CC The nucleic acids of the invention and their complements are used as DNA
CC probes in diagnostic assays to detect and quantitate the presence of
CC similar nucleic acids in samples, and therefore which patients may be in
CC need of restorative therapy. The ZSIG33 peptides are used as antigens in
CC the production of antibodies against ZSIG33 and in assays to identify
CC modulators of ZSIG33 expression and activity. The anti-ZSIG33 antibodies
CC and antagonists are used to down regulate expression and activity. The
CC anti-ZSIG33 antibodies are also used as diagnostic agents for detecting
CC the presence of ZSIG33 in samples (e.g. by enzyme linked immunosorbent
CC assay (ELISA)). The peptides and nucleic acids of the invention are used
CC to modulate gastric contractility, nutrient uptake, growth hormones, the
CC secretion of digestive enzymes and hormones, and/or secretion of enzymes
CC and/or hormones in the pancreas. zsig33-like DNA is used in gene therapy
CC and zsig33-like peptide is used in protein therapy. The present sequence
CC is human zsig33 protein
XX
SQ Sequence 117 AA;

Alignment Scores:
Pred. No.: 2.23e-13 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 5 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x AAE23838 (1-117)

QY 1 ATGCCCTCCCGAGGACGCTCGAGCTCTGCTCTCCGCGATCCTGGCTGGACTTG 60
|||||
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
|||||

QY 61 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACAGAGAGTCCAGGTGAGACCTCCC 120
|||||
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
|||||

QY 121 CACAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACAGCTCTGTGACCTGGAG 180
37 ----- 37

QY 181 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGCTGAC 240
37 ----- 37

QY 241 CTCACTGTTTCTGGAAGACATGGGGCTTAGAGTCTTAAACAGACTGTTTCCCTTCC 300
37 ----- 37

QY 301 AGCAGAGAAAGAGTCTGAAGAACCCAGCCAGCTGCAGCCCGAGCT 350
|||||
Db 38 -----ArgLysGluSerLysLysProProAlaLysLeuGlnProArgAla 52
|||||

RESULT 12

AAE15883

ID AAE15883 standard; protein; 117 AA.

XX

XX AAE15883;

XX 26-MAR-2002 (first entry)

XX

XX Human zsig33 protein.

XX

KW Human; zsig33-like peptide; ZS33LP; immunity; developmental process;
KW infection; human immunodeficiency virus; vaccine; antihypoglycaemic;
KW adsorption enhancer; gastrointestinal disease; growth related disease;
KW inflammation; gene therapy; growth regulation; blood vessel formation;
KW HIV; zsig33 protein.

XX

OS Homo sapiens.

XX FH Key Location/Qualifiers
 FT Peptide 1. .23
 FT /label= Signal_peptide
 FT Protein 24. .117
 FT /note= "Human mature zsig33 protein"
 XX
 PN WO200187933-A2.
 XX
 PD 22-NOV-2001.
 XX
 XX 10-MAY-2001; 2001WO-US015091.
 XX
 XX 11-MAY-2000; 2000US-00569271.
 PR
 XX (ZYMO) ZYMOGENETICS INC.
 PA
 XX Jaspers SR, Sheppard PO, Deisher TA, Bishop PD;
 XX
 XX WPI; 2002-082982/11.
 DR N-PSDB; AAD25759.
 XX
 XX New polypeptides, useful for modulating gastric contractility, nutrient uptake, pancreatic secretion of hormones, digestive enzymes and treating gastrointestinal and growth related diseases, comprises zsig33-like peptides.
 PT
 PT
 PT
 PT
 XX Disclosure; Page 80-81; 89pp; English.
 PS
 XX The invention relates to zsig33-like peptides (ZS33LP) including zsig33-linker, zsig33-beta, zsig33-gamma, zsig33-delta and zsig33-epsilon. Peptides and nucleic acid molecules encoding such zsig33-like peptides. ZS33LP peptides activate the immune system in boosting immunity to infectious diseases, treating immunocompromised patients such as human immunodeficiency virus (HIV) patients, in improving vaccines and in treatment of bacterial, viral, protozoal and fungal infections. Peptides of the invention are used to identify and isolate receptors involved in growth regulation in the liver, blood vessel formation and other developmental processes. They are useful for evaluating functions of hypothalamus-pituitary-adrenal axis, to modulate growth and/or differentiation of tumour cells, as additives to anti-hypoglycaemic preparations containing glucose and as adsorption enhancers for oral drugs which require fast nutrient action and to stimulate glucose-induced insulin release. They are also useful as research reagents for the expansion, differentiation, growth factor and hormone secretion and/or cell-cell interactions of tissues associated with gastrointestinal system, brain and central nervous system. These molecules are useful for treating dysfunction associated with contractile tissues or to suppress or enhance contractility in vivo and to treat gastrointestinal and growth related diseases. ZS33LP peptides, nucleic acids and/or antibodies are useful for treating disorders associated with gastrointestinal contractility, secretion of digestive enzymes, hormone and acids, secretion of hormones in the pancreas and/or brain, gastrointestinal motility, recruitment of digestive enzymes, inflammation and regulation of nutrient absorption. Sequences of the invention are useful in gene therapy. The present sequence is human zsig33 protein
 XX
 XX Sequence 117 AA;

Alignment Scores:
 Pred. No.: 2,23e-13 Length: 117
 Score: 204.00 Matches: 51
 Percent Similarity: 44.1% Conservative: 1
 Best Local Similarity: 43.2% Mismatches: 0
 Query Match: 31.7% Indels: 66
 DB: 5 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x AAE15883 (1-117)

QY 1 ATCCCTCCCGAGGACCGCTCAGCCTCTCTCGGCATGCTCTGGCTGGACTTG 60
 |||||
 Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
 |||||

QY 61 GCCATGGCAGGCTCCAGCTTCCTGAGCCCTGAAACACACAGAGAGTCCAGGTGAGACCTCCC 120
 |||||
 Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
 |||||
 QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACCTAGCAACACAGCTCTGTGACCTGGAG 180
 |||||
 Db 37 ----- 37
 |||||
 QY 181 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGAGCTCTGGTCTGAC 240
 |||||
 Db 37 ----- 37
 |||||
 QY 241 CTCACGTGTTCTGGAAGGACATGGGGCTTAGAGTCTCTAAACAGAGCTGTTCCCTCCCTTC 300
 |||||
 Db 37 ----- 37
 |||||
 QY 301 AGCAGAGAAAGAGTCCGAAGAGCCACACAGCCAAAGCTGCAGCCGCCGAGCT 350
 |||||
 Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52
 |||||
 RESULT 13
 ABUS8046
 ID ABUS8046 standard; protein; 117 AA.
 XX
 AC ABUS8046;
 XX
 DT 14-APR-2003 (first entry)
 XX
 DE Human PRO polypeptide #78.
 XX
 KW Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;
 KW horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;
 KW antibody-dependent enzyme mediated prodrug therapy.
 XX
 OS Homo sapiens.
 XX
 PN US2003027163-A1.
 XX
 PD 06-FEB-2003.
 XX
 PF 15-NOV-2001; 2001US-00997666.
 PF 16-JUN-1997; 97US-0049787P.
 PF 17-OCT-1997; 97US-0062250P.
 PF 05-NOV-1997; 97WO-US020069.
 PF 12-NOV-1997; 97US-0065186P.
 PF 13-NOV-1997; 97US-0065311P.
 PF 24-NOV-1997; 97US-0066770P.
 PF 25-FEB-1998; 98US-0075945P.
 PF 20-MAR-1998; 98US-0078910P.
 PF 28-APR-1998; 98US-0083322P.
 PF 07-MAY-1998; 98US-0084600P.
 PF 28-MAY-1998; 98US-0087106P.
 PF 02-JUN-1998; 98US-0087607P.
 PF 02-JUN-1998; 98US-0087609P.
 PF 03-JUN-1998; 98US-0087759P.
 PF 04-JUN-1998; 98US-0087827P.
 PF 04-JUN-1998; 98US-0088021P.
 PF 04-JUN-1998; 98US-0088026P.
 PF 04-JUN-1998; 98US-0088028P.
 PF 04-JUN-1998; 98US-0088029P.
 PF 04-JUN-1998; 98US-0088030P.
 PF 04-JUN-1998; 98US-0088033P.
 PF 04-JUN-1998; 98US-0088326P.
 PF 05-JUN-1998; 98US-0088167P.
 PF 05-JUN-1998; 98US-0088202P.
 PF 05-JUN-1998; 98US-0088212P.
 PF 05-JUN-1998; 98US-0088217P.
 PF 09-JUN-1998; 98US-0088655P.
 PF 10-JUN-1998; 98US-0088734P.
 PF 10-JUN-1998; 98US-0088738P.
 PF 10-JUN-1998; 98US-0088742P.

PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 07-SEP-2000; 2000US-0230978P.

Alignment Scores:
Pred. No.: 2,23e-13 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 6 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x ABU58046 (1-117)

QY 1 ATGCGCTCCCGAGGACCGCTCTGAGCCTCTCTCGGCAGCTCTCGCTGGACTTG 60
|||||
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 61 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGACACCCAGAGAGTCCAGGTGAGACCTCCC 120
|||||
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACCAAGCTCTGTGACCTGGAG 180
37 ----- 37
QY 181 CAGCAGGCGCATCTCTGGGCTTCAGTCTTCTCCAGAGCAAAAGGACTCTGGTGTGAC 240
37 ----- 37
QY 241 CTCACGTGTTCTGGAAGACATGGGGCTTAGAGTCTCTAAACAGACTGTTCCCTCTCC 300
37 ----- 37
QY 301 AGCAGAGAAGAGTCCGAGAAGCCACAGCCCAAGCTGAGCCCGAGCT 350
|||||
Db 38 -----ArgLysGluSerLysLysProProAlaLysLeuGlnProArgAla 52

RESULT 14
ABU59124
ID ABU59124 standard; protein; 117 AA.
XX
AC ABU59124;
XX
DT 28-APR-2003 (first entry)
XX
DE Novel human secreted or transmembrane protein PRO1066.
XX
KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
KW cardiac insufficiency disorder; cancer; tumour; immune response;
KW adrenal cortical capillary endothelial growth; c-fos induction;
KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocyte stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosa; kidney disorder;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW dermatitis; herpetic keratitis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis.
XX
OS Homo sapiens.
XX
FN US2002132252-A1.
XX
PD 19-SEP-2002.
XX
XX 14-NOV-2001; 2001US-00990442.
XX
XX 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US02006P.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.

PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 03-JUN-1998; 98US-0087759P.
PR 04-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
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PR 10-JUN-1998; 98US-0088734P.
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PR 10-JUN-1998; 98US-0088742P.
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PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 98WO-US000108.
PR 08-MAR-1999; 98WO-US005028.
PR 02-JUN-1999; 98WO-US012252.
PR 15-SEP-1999; 98WO-US021090.
PR 15-SEP-1999; 98WO-US021547.
PR 30-NOV-1999; 98WO-US028313.
PR 01-DEC-1999; 98WO-US028301.
PR 01-DEC-1999; 98WO-US028634.
PR 16-DEC-1999; 98WO-US030095.
PR 20-DEC-1999; 98WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.

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Alignment Scores:      2 23e-13
Pred. No.:            204.00
Score:                 44.1%
Percent Similarity:   44.1%
Best Local Similarity: 43.2%
Query Match:          31.7%
DB:                   6
Length:               117
Matches:              51
Conservative:         0
Mismatch:              66
Indels:               1
Gaps:                 1

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PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-JUN-2000; 2000US-0213637P.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.

Alignment Scores:

Pred. No.:	2,23e-13	Length:	117
Score:	204.00	Matches:	51
Percent Similarity:	44.1%	Conservative:	1
Best Local Similarity:	43.2%	Mismatches:	0
Query Match:	31.7%	Indels:	66
DB:	6	Gaps:	1

US-10-659-782B-11_COPY_112_462 (1-351) x ABU82636 (1-117)

QY	1	ATGCCCTCCCGAGGACCGTCTGCAGCCTCTGCTCCTCGGCATGCTCTGGCTGACTTG	60
DB	1	MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu	20
QY	61	GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACACAGAGAGTCCAGGTGAGACCTCCC	120
DB	21	AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln-----	37
QY	121	CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACCACTGTGTGACCTGGAG	180
DB	37	-----	37
QY	181	CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAGGACTCTGGGTCTGAC	240
DB	37	-----	37
QY	241	CTCACTGTTTCTGGAAGGACATGGGGCTTAGAGTCTTAACAGACTGTTTCCCCCTTCC	300
DB	37	-----	37
QY	301	AGCAGAGAAAGAGTCTGAAGAGCCACAGCCCAAGCTGCAGCCCCGAGCT	350
DB	38	-----ArgLysGluSerLysLysProProAlaLysLeuGlnProArgAla	52

Search completed: July 11, 2006, 16:28:20
Job time : 141.5 secs

GenCore version 5.1.9
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OM nucleic - protein search, using frame_plus_n2p model

Run on: July 11, 2006, 16:28:41 ; Search time 5.9 Seconds
(without alignments)
1717.225 Million cell updates/sec

Title: US-10-659-782B-11_COPY_112_462

Perfect score: 644
Sequence: 1 atgcctccccagggaccgt.....caagctgcagcccgagctc 351

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 566832

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODE=frame+ n2p.model -DEV=xlp
-O=/abss/ABSSWEB spool/US10659782/runat 11072006 110911 2052/app query.fasta_1
-DB=PIR -QFMT=FASTA -SUFFIX=n2p.rpr -MINMATCH=0.1 -LOOPEXT=0
-UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
-DOCALIGN=200 -THR_SCORE=spect -THR_MAX=100 -THR_MIN=0 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000 -HOST=abss02p
-USER=US10659782 @CGN.1 1 63 @runat 11072006 110911 2052 -NCPU=6 -ICPU=3
-NO MNAP -NPG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG -DEV TIMEOUT=120
-WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : PIR 80.*

1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	204	31.7	117	1 A59316	ghrelin precursor
2	165	25.6	117	1 B59316	ghrelin precursor
3	85.5	13.3	3164	1 WMBEH6	UL36 protein - hum
4	85	13.2	135	2 S12549	hypothetical prote
5	84	13.0	317	2 A28996	proline-rich prote
6	83	12.9	334	1 TVNSJA	transcription fact
7	83	12.9	334	2 S12742	transcription fact
8	82	12.7	383	2 S32975	gene BCRF2 protein
9	81	12.6	141	2 E72594	hypothetical prote
10	80.5	12.5	381	2 S16506	hypothetical prote
11	80.5	12.5	506	2 B56201	transcription fact
12	80.5	12.5	514	2 A56201	transcription fact
13	80.5	12.5	744	2 T35192	probable ABC trans
14	80	12.4	1056	2 G84865	hypothetical prote

15	79.5	12.3	2142	2 B35098	MHC class III hist
16	78.5	12.2	240	2 A4264	proline-rich prote
17	78.5	12.2	1870	2 S37671	MHC class III hist
18	78.5	12.2	1872	2 S36152	MHC class III hist
19	78	12.1	136	2 AG0449	regulator of nucle
20	78	12.1	544	2 S15664	transcription fact
21	78	12.1	718	2 JCS805	transcription fact
22	78	12.1	1115	1 IJMSNL	neural cell adhesi
23	77.5	12.0	349	2 JCS881	myocyte enhancer f
24	77.5	12.0	924	2 S27923	gene LF3 protein -
25	76.5	11.9	530	2 T48627	hypothetical prote
26	76.5	11.9	1217	2 T25894	hypothetical prote
27	76.5	11.9	1794	2 T38459	hypothetical diver
28	76	11.8	347	2 S10571	mucin 1 precursor,
29	76	11.8	1184	2 G01763	atrophin-1 - human
30	76	11.8	1207	2 T00378	KIAA0641 protein -
31	75.5	11.7	188	2 D29149	proline-rich prote
32	75.5	11.7	3511	2 A59295	unconventional myo
33	75.5	11.7	3530	2 A59266	unconventional myo
34	75	11.6	353	2 B36963	bcsA 5'-region pro
35	75	11.6	552	2 T50109	ap-1-like transcri
36	75	11.6	640	2 T08179	LRGS protein - chl
37	75	11.6	764	2 I48882	thyrotropin recept
38	74.5	11.6	320	1 A39724	homeotic protein H
39	74.5	11.6	339	2 JCS882	myocyte enhancer f
40	74.5	11.6	1091	2 S33596	protein-tyrosine k
41	74	11.5	222	1 BFO	folate-binding pro
42	74	11.5	530	2 A50941	probable sugar kin
43	74	11.5	1176	2 A49848	nitrite reductase
44	74	11.5	1184	2 S50832	atrophin-1 - human
45	74	11.5	1366	1 CGHU25	collagen alpha 2(I

ALIGNMENTS

RESULT 1

A59316
ghrelin precursor - human
N:Alternate names: preproghrelin
C:Species: Homo sapiens (man)
C>Date: 16-Jun-2000 #sequence_revision 16-Jun-2000 #text_change 09-Jul-2004
C:Accession: A59316
R:Kojima, M.; Hosoda, H.; Date, Y.; Nakazato, M.; Matsuo, H.; Kangawa, K.
Nature 402, 656-660, 1999
A:Title: Ghrelin is a growth-hormone-releasing acylated peptide from stomach.
A:Reference number: A59316; MUID:20067959; PMID:10604470
A:Accession: A59316
A>Status: not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 1-117 <KOJ>
A:Cross-references: UNIPROT:Q9UBU3; UNIPARC:UPI00000362D3; GB:AB029434; NID:G6691571; P:
A:Experimental source: tissue stomach endocrine cells
A>Note: submitted to GenBank, June 1999
C:Comment: Ghrelin secreted by the stomach stimulates the release of somatotropin (grow
C:Superfamily: motilin
C:Keywords: hormone; lipoprotein; stomach
F:1-23/Domain: signal sequence #status predicted <SIG>
F:24-51/Product: ghrelin #status predicted <MAT>
F:52-117/Domain: carboxyl-terminal propeptide #status predicted <CTP>
F:26/Binding site: octanoate (Ser) (covalent) #status experimental

Alignment Scores:
Pred. No.: 2,068-12 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 1 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x A59316 (1-117)

QY 1 ATGCCCTCCCCAGGACCGCTTCGACCTCTCTCGGCATGCTCTGGCTGGACTTG 60
|||||

```
Db      1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTriLeuAspLeu 20
QY      61 GCCATGGAGGCTCAGCTTCTGAGCCCTGAACACAGAGAGTCCAGTGAGACTCCC 120
Db      21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY      121 CACAAAGCCCCACACATGTTGTTCCAGCCCTGCCACTTAGCAACCAAGCTCTGTGACCTGGAG 180
Db      37 ----- 37
QY      181 CAGCAGGCCCATCTCTGGGCTTCACTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 240
Db      37 ----- 37
QY      241 CTCACTGTTTCTGGNAGACATGGGGCTTAGAGTCCTAAACAGACTGTTTCCCCCTTCC 300
Db      37 ----- 37
QY      301 AGCAGAGAAAGGAGTCGAAGAAGCCACAGCAAGCTGCAGCCCGAGCT 350
Db      38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52
RESULT 2
B59316
ghrelin precursor - rat
N:Alternate names: preproghrelin
C:Species: Rattus norvegicus (Norway rat)
C>Date: 16-Jun-2000 #sequence_revision 16-Jun-2000 #text_change 09-Jul-2004
C:Accession: B59316
R:Kojima, M.; Hosoda, H.; Date, Y.; Nakazato, M.; Matsuo, H.; Kangawa, K.
Nature 402, 656-660, 1999
A:Title: Ghrelin is a growth-hormone-releasing acylated peptide from stomach.
A:Reference number: A59316; MUID:20067959; PMID:10604470
A:Accession: B59316
A>Status: not compared with conceptual translation
A:Molecule type: mRNA; protein
A:Residues: 1-117 <KOJ>
A:Cross-references: UNIPROT:Q9QVH7; UNIPARC:UPI000012B411; GB:AB029433; NID:G6691569; PI
A:Experimental source: strain SD; tissue stomach endocrine cells
A>Note: submitted to Genbank, June 1999
C:Comment: Ghrelin secreted by the stomach stimulates the release of somatotropin (growth hormone)
C:Superfamily: motilin
C:Keywords: hormone; lipoprotein; stomach
F:1-23/Domain: signal sequence #status predicted <SIG>
F:24-51/Product: ghrelin #status predicted <WAT>
F:52-117/Domain: carboxyl-terminal propeptide #status predicted <CTP>
F:126/Binding site: octanoate (Ser) (covalent) #status experimental
Alignment Scores:
Pred. No.: 1,78e-08 Length: 117
Score: 165.00 Matches: 43
Percent Similarity: 39.8% Conservative: 4
Best Local Similarity: 36.4% Mismatches: 5
Query Match: 25.6% Indels: 66
DB: 1 Gaps: 1
US-10-659-782B-11_COPY_112_462 (1-351) x B59316 (1-117)
QY      1 ATGCCCTCCAGGAGCGTCTGAGCCCTCTGCTCTCTGCGCATGCTCTGGCTGAGCTTG 60
Db      1 MetValSerSerAlaThrIleCysSerLeuLeuLeuLeuSerMetLeuTrpMetAspMet 20
QY      61 GCCATGGAGGCTCCAGCTTCTGAGCCCTGAACACAGAGAGTCCAGTGAGACTCCC 120
Db      21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnLys--Ala----- 35
QY      121 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACCAAGCTCTGTGACCTGGAG 180
Db      35 ----- 35
QY      181 CAGCAGGCCCATCTCTGGGCTTCACTTCTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 240
Db      35 ----- 35
```

```
QY      241 CTCACTGTTTCTGAAGGACATGGGGCTTAGAGTCCTAAACAGACTGTTTCCCCCTTCC 300
Db      36 -----G 36
QY      301 AGCAGAGAAAGGAGTCTGAAGAAGCCACAGCAAGCTGCAGCCCGAGCT 350
Db      36 InGlnArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52
RESULT 3
WMBEH6
UL36 protein - human herpesvirus 1 (strain 17)
C:Species: human herpesvirus 1
C>Date: 31-Dec-1989 #sequence_revision 31-Dec-1989 #text_change 09-Jul-2004
C:Accession: I30085
R:McGeoch, D.J.; Dalrymple, M.A.; Davison, A.J.; Dolan, A.; Frame, M.C.; McNab, D.; Perr
J. Gen. Virol. 69, 1531-1574, 1988
A:Title: The complete DNA sequence of the long unique region in the genome of herpes sim
A:Reference number: A30083; MUID:88274327; PMID:2839594
A:Accession: I30085
A>Status: nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residues: 1-3164 <MCG>
A:Cross-references: UNIPROT:P10220; UNIPARC:UPI0000136B9B; GB:X14112; NID:G1944536; PIDN
C:Genetics:
C:Gene: UL36
C:Superfamily: varicella-zoster virus gene 22 protein
Alignment Scores:
Pred. No.: 1.81 Length: 3164
Score: 85.50 Matches: 37
Percent Similarity: 37.2% Conservative: 14
Best Local Similarity: 27.0% Mismatches: 58
Query Match: 13.3% Indels: 28
DB: 1 Gaps: 4
US-10-659-782B-11_COPY_112_462 (1-351) x WMBEH6 (1-3164)
QY      9 CCCAGGGACCGTCTGACGCCCTCTGCTCTCGGCATCTCTGGCTGGACTTGGCCATGGC 68
Db      2977 ProGlnArgLeuThrArgPro-----AlaValAlaSerLeuSerGluSer 2812
QY      69 AGGCTCCAGCTTCTGAGCCCTGAACACCAGAGAGTCCAGGTGAG-----ACC 116
Db      2813 ArgGluSerLeuProSerProTirAspProAlaAspProThrAlaProValLeuGlyArg 2832
QY      117 TCCCACAAAGCCCAACATGTTGTTC-----AGCCCTGCCACTTAGCAACCAAGCTCTG 170
Db      2833 AsnProAlaGluProThrSerSerSerProAlaGlyProSerProProProAlaVal 2852
QY      171 TGACCT-----GGA 179
Db      2853 GlnProValAlaProProProThrSerGlyProProProThrTyrLeuThrLeuGluGly 2872
QY      180 GCAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGAGCTCTGGGTCTGA 239
Db      2873 GlyValAlaProGlyGlyProValSerArgArgPro-ThrThrArgGlnProValAlaTh 2892
QY      240 CCTCACTGTTTCTGAAGGACATGGGGCTTAGAGTCCTAAACAGACTGTTTCCCCCTTC 299
Db      2892 rProThrThrSerAlaArgProArgGlyHisLeuThrValSerArgLeuSerAlaProGln 2912
QY      300 CAGCAGAGAAAGGAGTCTGAAGAAGCCACCAAGCTGACCAAGCTGCAGCCCGGAG 348
Db      2912 nProGlnProGlnProGlnProGlnProGlnProGlnProGlnProGlnProGln 2928
RESULT 4
S12549
hypothetical protein - human herpesvirus 4
C:Species: human herpesvirus 4, Epstein-Barr virus
C>Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004
C:Accession: S12549
R:Rogers, R.P.; Wolsetschlaeger, M.; Speck, S.H.
```

EMBO J. 9, 2273-2277, 1990
A:Title: Alternative splicing dictates translational start in Epstein-Barr virus transcript
A:Reference number: S12549; MUID:90291993; PMID:2162768
A:Accession: S12549
A:Status: not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 1-135 <ROG>
A:Cross-references: UNIPROT:Q05614; UNIPARC:UPI0000017A7DD

Alignment Scores:
Pred. No.: 2.1 Length: 135
Score: 85.00 Matches: 41
Percent Similarity: 33.1% Conservative: 3
Best Local Similarity: 30.8% Mismatches: 32
Query Match: 13.2% Indels: 57
DB: 2 Gaps: 9

US-10-659-782B-11_COPY_112_462 (1-351) x S12549 (1-135)
QY 2 TGCCCTCCCGAG-----GGACCTGTCGAGCCTCCTGCTCTCG 40
DB 28 CysProProGlnPheProSerProArgAlaSerGlyPro-LeuArgProArgProProGln 47
QY 41 GCATGCTCTGGCTGGA-----CTTGGCCATGG 67
DB 47 uThrArgAlaSerGlyProAlaSerProValThrLeuLeuGluProGlnProGlyHis-- 66
QY 68 CAGGCTCCAGCTTCTGAGCCCTGAAACACAGAGATCCAGGTGAGACCTCCCCACAAG 127
DB 67 -MetCysGlnThrProTrpProLeuArgProSerGlyProProGlyProArgProGlnG 86
QY 128 CCCACATCTGTTCAGCCCTGACCTTAGCAACAGCTCTGTGACCTGGAGCAGCAGC 187
DB 86 nPro---CysCysSerProAlaThr-----ProAlaSer---ProProProArgPr 102
QY 188 GCATCTCTGGCTTTCAGTCTTCTCCAGAGCACAAGAGCTCTGGGTCTGACCTCACTG 247
DB 102 oProSerLeu-----LeuLeuLeuProArg----- 110
QY 248 TTTCTGGAAGGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTTCCAGCAGAG 307
DB 111 -----SerProVal----- 113
QY 308 AAAGGAGTCGAAGACCCAGCCAGCTGTCAGCC 344
DB 114 -----GlyProProAlaProLeuHisPro 121

RESULT 5
A28996
proline-rich protein M14 precursor - mouse
C:Species: Mus musculus (house mouse)
C:Date: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_change 05-Oct-2004
R:Ann, D.K.; Smith, K.; Carlson, D.M.
J. Biol. Chem. 263, 10887-10893, 1988
A:Title: Molecular evolution of the mouse proline-rich protein multigene family. Inserti
A:Reference number: A28996; MUID:88273214; PMID:2839509
A:Accession: A28996
A:Molecule type: DNA
A:Residues: 1-317 <ANN>
A:Cross-references: UNIPROT:Q62103; UNIPARC:UPI0000056FBE; GB:M23236; GB:J03891; NID:920
C:Genetics: 22/1
A:Introns: 22/1
C:Superfamily: Proline-rich peptide P-B
C:Keywords: saliva
F:1-15/Domain: signal sequence #status predicted <SIG>
F:16-317/Product: proline-rich protein M14 #status predicted <MAT>

Alignment Scores:
Pred. No.: 2.62 Length: 317
Score: 84.00 Matches: 36
Percent Similarity: 33.3% Conservative: 3
Best Local Similarity: 30.8% Mismatches: 57

Query Match: 13.0% Indels: 21
DB: 2 Gaps: 3
US-10-659-782B-11_COPY_112_462 (1-351) x A28996 (1-317)
QY 5 CTCTCCCGAGGACCGCTCTGCAGCCT-----CCTGCTCTCGGATGCTCTGCTGGACT 58
DB 118 ProProGlnGlyProPro-ProProGlyGlyProGlnProArgProProGlnGlyProPr 137
QY 59 TGGCCATGGCAGGCTCCAGCTTCTGAGCCCTGAAACACAGAGATCCAGGTGAGACCTC 118
DB 137 oProProGlyGlyProGlnGlnArgProProGlnGlyProProProGlyGlyProGl 157
QY 119 CCCACAAAGCCCATCATGTTGTCAGCCCTGACCTTAGCAACAGCTCTGTGACCTGG 178
DB 157 nProArgProProGlnGlyProProProProAlaGlyProGlnProArgPro---ProGl 176
QY 179 AGCAGCAGCCCATCTCTGGGCTTTCAGTCTTCTCCAGAGCACAAGGACTCTGGGTCTG 238
DB 176 nGlyProProProAlaGlyProHisLeuArgProThrGln----- 190
QY 239 ACCTCACTGTTTCTGGAAGGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTT 298
DB 191 -----GlyProProProThrGlyGlyProGl 199
QY 299 CCAGCAGAGAAAGGAGTCGAAGAAGCCACAGCCAGCTGCGAGCCCGA 347
DB 199 nGlnArgTyProGlnSerProProProProGlyGlyProGlnProArg 215

RESULT 6
TVNSJA
transcription factor AP-1 - mouse
N:Alternate names: fos-associated 39K protein; protein PE1; transcription factor, TGAC
C:Species: Mus musculus (house mouse)
C:Date: 31-Dec-1989 #sequence_revision 31-Dec-1989 #text_change 09-Jul-2004
C:Accession: A31345; S04683; S04537
R:Ryder, K.; Nathans, D.
Proc. Natl. Acad. Sci. U.S.A. 85, 8464-8467, 1988
A:Title: Induction of protooncogene c-jun by serum growth factors.
A:Reference number: A31345; MUID:89042204; PMID:3186736
A:Accession: A31345
A:Molecule type: mRNA
A:Residues: 1-334 <RYD>
A:Cross-references: UNIPROT:P05627; UNIPARC:UPI00000019B4; GB:J04115; NID:G192577; PIDN
R:Lamph, W.W.; Wamsley, P.; Sassone-Corsi, P.; Verma, I.M.
Nature 334, 629-631, 1988
A:Title: Induction of proto-oncogene JUN/AP-1 by serum and TPA.
A:Reference number: S04683; MUID:88302467; PMID:2457172
A:Accession: S04683
A:Molecule type: mRNA
A:Residues: 1-334 <LAM>
A:Cross-references: UNIPARC:UPI00000019B4; EMBL:X12740; NID:G52762; PIDN:CAA31236.1; PI
R:Ryseck, R.P.; Hirai, S.I.; Yaniv, M.; Bravo, R.
Nature 334, 535-537, 1988
A:Title: Transcriptional activation of c-jun during the G(0)/G(1) transition in mouse f
A:Reference number: S04537; MUID:88302446; PMID:3136397
A:Accession: S04537
A:Molecule type: mRNA
A:Residues: 1-182, 'C', 184-334 <RYS>
A:Cross-references: UNIPARC:UPI000016CB62; EMBL:X12761; NID:G52758; PIDN:CAA31252.1; PI
C:Genetics:
A:Gene: jun-A
C:Superfamily: jun transforming protein; fos/jun DNA-binding domain homology
C:Keywords: DNA binding; leucine zipper; phosphoprotein; proto-oncogene; transcription
F:250-290/Domain: fos/jun DNA-binding domain homology <FJD>
F:283-311/Region: leucine zipper motif

Alignment Scores:
Pred. No.: 3.31 Length: 334
Score: 83.00 Matches: 23
Percent Similarity: 55.3% Conservative: 3
Best Local Similarity: 48.9% Mismatches: 15
Query Match: 12.9% Indels: 6

```
DB: 1 Gaps: 3
US-10-659-782B-11_COPY_112_462 (1-351) x TWMSJA (1-334)
QY 9 CCCAGGGACCGTCTCGACCTCTCTCTCTCGGCATGCTCTG-----GCTGGACTT 59
Db 201 ProGlnGlnGlnGlnProGlnProGlnProHisHisLeuProGlnGlnProVal 220
QY 60 GCCCATGGCAGCTCCAGCTT-----CCTGAGCCTGAACA---CCAGAGAGTCCAGGT 110
Db 221 GlnHisProArgLeuGlnAlaLeuLysGluGluProGlnThrValProGluMetProGly 240
QY 111 GAGACCTCCCAACAAAGCCCC 131
Db 241 GluThrProProLeuSerPro 247
RESULT 7
S12742
transcription factor AP-1 - rat
N:Alternate names: transforming protein (jun)
C:Species: Rattus norvegicus (Norway rat)
C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C:Accession: S12742; S20028; A37381
R:Kitabayashi, I.; Saka, F.; Gachelin, G.; Yokoyama, K.
Nucleic Acids Res. 18, 3400, 1990
A:Title: Nucleotide sequence of rat c-jun protooncogene.
A:Reference number: S12742; MUID:90287724; PMID:2113275
A:Accession: S12742
A:Molecule type: DNA
A:Residues: 1-334 <KIT>
A:Cross-references: UNIPROT:P17325; UNIPARC:UPI0000125BBE; EMBL:X17215; NID:g57079; PIDN
R:Kitabayashi, I.; Kawakami, Z.; Chiu, R.; Ozawa, K.; Matsuo, K.; Toyoshima, S.; Umec
EMBO J. 11, 167-175, 1992
A:Title: Transcriptional regulation of the c-jun gene by retinoic acid and E1A during di
A:Reference number: S20028; MUID:92155155; PMID:1310930
A:Accession: S20028
A>Status: translation not shown
A:Molecule type: DNA
A:Residues: 1-334 <KI2>
A:Cross-references: UNIPARC:UPI0000125BBE; EMBL:X17215; NID:g57079; PIDN:CAA35084.1; PID
R:Sakai, M.; Okuda, A.; Hatayama, I.; Sato, K.; Nishi, S.; Muramatsu, M.
Cancer Res. 49, 5633-5637, 1989
A:Title: Structure and expression of the rat c-jun messenger RNA: tissue distribution an
A:Reference number: A37381; MUID:90002916; PMID:2507134
A:Accession: A37381
A:Molecule type: mRNA
A:Residues: 1-334 <SAK>
A:Cross-references: UNIPARC:UPI0000125BBE; GB:X17163; NID:g57819; PIDN:CAA35041.1; PID:g
C:Genetics:
C:Function:
A:Description: transcription factor
C:Superfamily: jun transforming protein; fos/jun DNA-binding domain homology
C:Keywords: DNA binding; leucine zipper; nucleus; phosphoprotein; transcription factor;
F:250-290/Domain: fos/jun DNA-binding domain homology <FJD>
F:283-311/Region: leucine zipper motif
Alignment Scores:
Pred. No.: 3.31 Length: 334
Score: 83.00 Matches: 23
Percent Similarity: 55.3% Conservativeness: 3
Best Local Similarity: 48.9% Mismatches: 15
Query Match: 12.9% Indels: 6
DB: 2 Gaps: 3
US-10-659-782B-11_COPY_112_462 (1-351) x S12742 (1-334)
QY 9 CCCAGGGACCGTCTCGACCTCTCTCTCTCGGCATGCTCTG-----GCTGGACTT 59
Db 201 ProGlnGlnGlnGlnProGlnProGlnProHisHisLeuProGlnGlnProVal 220
QY 60 GCCCATGGCAGCTCCAGCTT-----CCTGAGCCTGAACA---CCAGAGAGTCCAGGT 110
Db 221 GlnHisProArgLeuGlnAlaLeuLysGluGluProGlnThrValProGluMetProGly 240
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Db 221 GlnHisProArgLeuGlnAlaLeuLysGluGluProGlnThrValProGluMetProGly 240
QY 111 GAGACCTCCCAACAAAGCCCC 131
Db 241 GluThrProProLeuSerPro 247
RESULT 8
S32975
gene BCRP2 protein - human herpesvirus 4
N:Alternate names: gene BWRFL1 protein
C:Species: human herpesvirus 4, Epstein-Barr virus
C:Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 05-Oct-2004
C:Accession: S32975; S02383; S32976; S32977; S32978; S32979; S32980; S32981; S32982; S32
R:Farrell, P. J.
submitted to the EMBL Data Library, March 1988
A:Reference number: S32973
A:Accession: S32975
A:Molecule type: DNA
A:Residues: 1-383 <PAR>
A:Cross-references: UNIPROT:Q04397; UNIPROT:O8AZK8; UNIPROT:O8AZK6; UNIPROT:O8AZK5; UNIP
NID:g59074; PIDN:CAA24864.1; PID:g1334836; PID:g1334837; PID:g1334838; PID:g1334839; PI
A:Note: each of the twelve author-supplied translations in EMBL:V01555 for this repeated
R:Walls, D.; Gannon, F.
EMBO J. 7, 1191-1196, 1988
A:Title: The expression of novel antigens from the Epstein-Barr virus large internal rep
A:Reference number: S02381; MUID:88296424; PMID:2841116
A:Accession: S02383
A:Molecule type: DNA
A:Residues: 88-144 <WAL>
A:Cross-references: UNIPARC:UPI000002C546; EMBL:X07816
C:Genetics:
A:Gene: BCRP2_1; BWRFL_2; BWRFL_3; BWRFL_4; BWRFL_5; BWRFL_6; BWRFL_7; BWRFL_8; BWRFL_9,
A:Note: twelve consecutive ORFs apparently encode the identical polypeptide
C:Superfamily: Proline-rich peptide P-B
C:Keywords: membrane protein; surface antigen
Alignment Scores:
Pred. No.: 4.17 Length: 383
Score: 82.00 Matches: 36
Percent Similarity: 32.1% Conservativeness: 7
Best Local Similarity: 26.9% Mismatches: 55
Query Match: 12.7% Indels: 36
DB: 2 Gaps: 6
US-10-659-782B-11_COPY_112_462 (1-351) x S32975 (1-383)
QY 12 AGGACCCCTCTGACGCTCTCTCTCTCGGCATGCTCTGCTGGAGCTT----- 59
Db 121 ArgSerProLeuSerProValLysProLysGluCysLeuArgGlyAlaThrLeuGlyAla 140
QY 60 -----GGCCATGGCAGGCTCCAGCTTCCT-----GAG 86
Db 141 GlnAlaProGluSerArgGlyGlnGlyHisLeuArgValProProArgValProGlyGln 160
QY 87 CCCTGAACACCAAGAGAGTCCAGGTGAGACCTCCCAACAAAGCCCAACATGTTGTTCCAGC 146
Db 161 ProGluGlyProArgGlnProGlyArg-----ProGlnArgProValProArgProPhe 178
QY 147 CTGTCACCTTAGCAACAGCTCTGTGACCT-----GGAGCAGCAGCGGCATCT 194
Db 179 ProGlyLeuGlnSerProGlyCysProGluGlyThrLeuGlyValProSerProPro 198
QY 195 CTGGCTTTCAGTCTTCTCCAGAGCACAAAGGACTC-----TGGGTCTGACCT 242
Db 199 LeuGlnAlaArgAlaSerProSerArgGlyAlaSerLeuGlyProGlnValGlnPro 218
QY 243 CACTGTTTTCGAAGGACATGGGGCTTAGAGTCTCTAAACAGACGTGTTTCCCTTCCAG 302
Db 219 His-----ArgAspProSerGlyProAspPro 227
QY 303 CAGAGAAAGGAGTCCGAAGACCCAGCCAGCTGCAGCCC 344
Db 228 ProThrGlyProSerLeuCysProProAlaProLeuGlnPro 241
```



```

Db          572 Phe-----GluAlaSerProVal 577
      :::|||
Qy    291 TCCTCCCTTCCAGCAGAGAAGAGGTCTCGAAGAAGCCACGACCAAGTCGCAGCCC 344
      |||||:::|||||
Db     578 GluProGlnLeuProSerLysGluGlyProGluProGluGluValProPro 595

```

Search completed: July 11, 2006, 16:35:58
Job time : 34.5 secs

RESULT 15
B35098
MHC class III histocompatibility antigen HLA-B-associated protein 2 [imported] - human
C:Species: Homo sapiens (man)
C:Date: 10-Aug-1990 #sequence_revision 06-Nov-1992 #text_change 09-Jul-2004
C:Accession: B35098
R:Banerji, J.; Sands, J.; Strominger, J.L.; Spies, T.
Proc. Natl. Acad. Sci. U.S.A. 87, 2374-2378, 1990
A:Title: A gene pair from the human major histocompatibility complex encodes large protein
A:Reference number: A35098; MUID:90192810; PMID:2156268
A:Accession: B35098
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-2142 <BAN>
A:Cross-references: UNIPROT:P48634; UNIPARC:UPI000012679F; GB:M33509; NID:G179338; PIDN:
A>Note: the authors translated the codon AGT for residue 97 as Gly
C:Superfamily: collagen alpha 1(IV) chain

Alignment Scores:					
Pred. No.:	7.32	Length:	2142		
Score:	79.50	Matches:	33		
Percent Similarity:	37.3%	Conservative:	11		
Best Local Similarity:	28.0%	Mismatches:	37		
Query Match:	12.3%	Indels:	37		
DB:	2	Gaps:	5		

US-10-659-782B-11_COPY_112_462 (1-351) x B35098 (1-2142)					
Qy	3	GCCTCCCGCAGGACGGTCTGCAGCACTCTGTCTCTCGGCACTCTGCTGGACTTGSC	62		
Db	511	AlaValProIysGluLeuProAlaProProAlaProProAlaSerAlaPro-----	528		
Qy	63	CATGGCAGGCTCCAGCTTCCTGTAGCCCTGAACACCAGAGAGTCCAGGTGAGACCTCCCCA	122		
Db	529	-----ThrProGluThrGluProGluProAla	538		
Qy	123	CAAAAGCCCACATGTTGTTTCCAGCCCTGCCACTTAGCAACAGCTCTGTGACTGGA----	179		
Db	539	GlnAlaProProAlaGlnSerThrProThr-----ProGlyVal	551		
Qy	180	GCAGCAGCGCCATCTCTG-----GGCTTCAGTCTTCTCCAGCAGCACAAAGGACATC	230		
Db	552	AlaAlaAlaProTrnIeuValSerGlyGlyGlySerThrSerSerThrSerSerGlySer	571		
Qy	231	TGGGTCTGACCTCAGCTGTTTTCTGGAAAGCATCGGGGGCTTAGAGTCTCTAAACAGACTGTT	290		

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US-10-659-782B-11_COPY_112_462 (1-351) x Q86YP8_HUMAN (1-91)

QY 1 ATGCCCTCCCGAGGACCGTCTGAGCGCTCTCTCGGCATGCTCTGGCTGGAGCTTG 60
 |||||
 Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
 RA
 QY 61 GCATGCGAGGCTCCAGCTTCTGAGCGCTGGAACACAGAGAGTCAGGTGAGACCTCCC 120
 |||||
 Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
 QY 121 CACAAAGCCCCACATGTTGTTCCAGGCGCTGCCACTTACCAACAGCTCTGTGACCTGGAG 180
 Db 37 ----- 37
 QY 181 CAGAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCAAAAGGACTCTGGGTCTGAC 240
 Db 37 ----- 37
 QY 241 CTCACCTGTTTTCGAAGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCCCTTCC 300
 Db 37 ----- 37
 QY 301 AGCAGAGAAGAGTTCGAAGAAGCCACCAGCAGCTGCAGCCCGAGCT 350
 |||||
 Db 38 ----ArgLysGluSerLysLysProProAlaLysLeuGlnProArgAla 52

RESULT 2

GHRL_HUMAN STANDARD; PRT; 117 AA.
 ID GHRL_HUMAN Q9H3R3;
 AC Q9H3R3; Q8AT9;
 DT 13-DEC-2001, integrated into UniProtKB/Swiss-Prot.
 DT 01-MAY-2000, sequence version 1.
 DT 07-MAR-2006, entry version 52.
 DE Appetite-regulating hormone precursor (Growth hormone secretagogue)
 DE (Growth hormone-releasing peptide) (Motilin-related peptide) (M46
 DE protein) [Contains: Ghrelin-27; Ghrelin-28 (Ghrelin); Obestatin].
 GN Name=GHRL; Synonyms=MTLRP; ORFNames=UQ0524/PRO1066;
 GN Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
 OC Homo.
 NCBI_TaxID=9606;
 RN [1]
 RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1), AND ACYLATION OF SER-26.
 RC TISSUE=Stomach;
 RX MEDLINE=20067959; PubMed=10604470; DOI=10.1038/45230;
 RA Kojima M., Hosoda H., Date Y., Nakazato M., Matsuo H., Kangawa K.;
 RT "Ghrelin is a growth-hormone-releasing acylated peptide from
 RT stomach.";
 RL Nature 402:656-660(1999).
 RN [2]
 RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1), AND PROTEIN SEQUENCE OF 24-33.
 RC TISSUE=Stomach;
 RX MEDLINE=20389976; PubMed=10930375;
 RA Tomasetto C., Karam S.M., Ribieras S., Masson R., Lefebvre O.,
 RA Staub A., Alexander G., Chenard M.-P., Rio M.-C.;
 RT "Identification and characterization of a novel gastric peptide
 RT hormone: the motilin-related peptide.";
 RL Gastroenterology 119:395-405(2000).
 RN [3]
 RP NUCLEOTIDE SEQUENCE [GENOMIC DNA].
 RA Wajnrach M.P., Ten I.S., Gertner J.M., Leibel R.L.;
 RT "Genomic organization of the human Ghrelin gene.";
 RL J. Endocr. Genet. 1:231-233(2000).
 RN [4]
 RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 2), TISSUE SPECIFICITY, ACYLATION
 RP OF SER-26, AND MASS SPECTROMETRY.
 RC TISSUE=Stomach;
 RX PubMed=12414809; DOI=10.1074/jbc.M205366200;
 RA Hosoda H., Kojima M., Mizushima T., Shimizu S., Kangawa K.;
 RT "Structural divergence of human ghrelin. Identification of multiple
 RT ghrelin-derived molecules produced by post-translational processing.";
 CC

J. Biol. Chem. 278:64-70(2003).

[5]
 NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
 MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
 RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,
 RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
 RA Eaton D., Foster J.S., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
 RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
 RA Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,
 RA Sehagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
 RA Vanden R.G., Watanabe C., Wiand D., Woods K., Xie M.-H.,
 RA Yansura D.L., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,
 RA Wood W.I., Godowski P.J., Gray A.M.;
 RT "The secreted protein discovery initiative (SPDI), a large-scale
 RT effort to identify novel human secreted and transmembrane proteins: a
 RT bioinformatics assessment.";
 RL Genome Res. 13:2265-2270(2003).

[6]
 NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
 TISSUE=Blood;
 MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickinson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalski U., Smalley D.E.,
 RA Schnerch A., Schein J.F., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences.";
 RL proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [7]
 RP PROTEIN SEQUENCE OF 24-38.
 RA PubMed=15340161; DOI=10.1110/ps.04682504;
 RA Zhang Z., Henzel W.J.;
 RT "Signal peptide prediction based on analysis of experimentally
 RT verified cleavage sites.";
 RL Protein Sci. 13:2819-2824(2004).
 RN [8]
 RP REVIEW.
 RA MEDLINE=21203998; PubMed=11306336; DOI=10.1016/S1043-2760(00)00362-3;
 RA Kojima M., Hosoda H., Matsuo H., Kangawa K.;
 RT "Ghrelin: discovery of the natural endogenous ligand for the growth
 RT hormone secretagogue receptor.";
 RL Trends Endocrinol. Metab. 12:118-122(2001).
 CC -!- FUNCTION: Ghrelin is a specific ligand for the growth hormone
 CC secretagogue receptor type 1 (GHSR) inducing the release of growth
 CC hormone from the pituitary. Has an appetite-stimulating effect,
 CC induces adiposity and stimulates gastric acid secretion. Involved
 CC in growth regulation.
 CC -!- FUNCTION: Obestatin is a specific ligand for the GPR39 receptor.
 CC It has an appetite-reducing effect, results in decreased food
 CC intake, and reduces gastric emptying activities and jejunal
 CC motility (By similarity).
 CC -!- SUBCELLULAR LOCATION: Secreted protein.
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=2;
 CC Name=1; Synonym=Ghrelin;
 CC IsoId=Q9UBU3-1; Sequence=Displayed;
 CC Name=2; Synonyms=del-Gln4-ghrelin;
 CC IsoId=Q9UBU3-2; Sequence=VSP_003245;
 CC -!- TISSUE SPECIFICITY: Highest level in stomach. All forms are found
 CC in serum as well. Other tissues compensate for the loss of ghrelin

CC synthesis in the stomach following gastrectomy.
 CC -!- PTM: O-n-octanoylation is essential for ghrelin activity. The O-n-
 CC decanoylated forms Ghrelin-27-C10 and Ghrelin-28-C10 differ in the
 CC length of the carbon backbone of the carboxylic acid bound to Ser-
 CC 26. A small fraction of ghrelin, ghrelin-28-C10:1, may be modified
 CC with an unsaturated carboxylic acid.
 CC -!- PTM: Amidation of Leu-98 is essential for obestatin activity (By
 CC similarity).
 CC -!- MASS SPECTROMETRY: MW=3398.9; MW ERR=0.3; METHOD=Electrospray;
 CC RANGE=24-51 (Ghrelin-28-C10); NOTE=O-decanoylated form (Ref.4).
 CC -!- MASS SPECTROMETRY: MW=3397.2; MW ERR=0.5; METHOD=Electrospray;
 CC RANGE=24-51 (Ghrelin-28-C10:1); NOTE=O-decanoylated form (Ref.4).
 CC -!- MASS SPECTROMETRY: MW=3371.3; MW ERR=0.1; METHOD=Electrospray;
 CC RANGE=24-51 (Ghrelin-28); NOTE=O-octanoylated form (Ref.4).
 CC -!- MASS SPECTROMETRY: MW=3243.6; MW ERR=0.4; METHOD=Electrospray;
 CC RANGE=24-50 (Ghrelin-27-C10); NOTE=O-decanoylated form (Ref.4).
 CC -!- MASS SPECTROMETRY: MW=3214.6; MW ERR=0.6; METHOD=Electrospray;
 CC RANGE=24-50 (Ghrelin-27); NOTE=O-octanoylated form (Ref.4).
 CC -!- SIMILARITY: Belongs to the motilin family.
 CC -!- DATABASE: NAME=Atlas Genet. Cytogenet. Oncol. Haematol.;
 CC WWW="http://www.infobiogen.fr/services/chronocenter/Genes/GhrelinID327.html".
 CC -!- DATABASE: NAME=Protein Spotlight; NOTE=Issue 66 of January 2006;
 CC WWW="http://www.expasy.org/spotlight/back issues/spl066.shtml".
 CC -----
 CC Copyrighted by the UniProt Consortium, see <http://www.uniprot.org/terms>
 CC Distributed under the Creative Commons Attribution-NoDerivs License
 CC -----
 CC EMBL; AB029434; BAA89371.1; -; mRNA.
 CC EMBL; AF252278; CAB65733.1; -; mRNA.
 CC EMBL; AF296558; AAG10300.1; -; Genomic_DNA.
 CC EMBL; AB035700; BAB19045.1; -; mRNA.
 CC EMBL; AY359053; RAQ89412.1; -; mRNA.
 CC EMBL; BC025791; AAH25791.1; -; mRNA.
 CC PIR; A59316; A59316.
 CC PDB; 1PTX; Model; A=1-117.
 CC H-InvDB; ENSG00000157017; Homo sapiens.
 CC DR H-InvDB; HIX0003050; -.
 CC DR HGNC; HGNC:18129; GHLR.
 CC DR MIM; 605353; Gene.
 CC DR GO; GO:0005615; C:extracellular space; ISS.
 CC DR GO; GO:0001664; F:G-protein-coupled receptor binding; ISS.
 CC DR GO; GO:0016608; F:growth hormone-releasing hormone activity; ISS.
 CC DR GO; GO:0007186; P:G-protein coupled receptor protein signalin. .; ISS.
 CC DR GO; GO:0050791; P:regulation of physiological process; ISS.
 CC InterPro; IPR006737; motilin_assoc.
 CC InterPro; IPR006738; motilin_Ghrelin.
 CC InterPro; IPR005441; Preproghrelin.
 CC PANTHER; PTHR14122; Preproghrelin; 1.
 CC Pfam; PF04643; Motilin_assoc; 1.
 CC Pfam; PF04644; Motilin_ghrelin; 1.
 CC PRINTS; PR01624; GHRELIN.
 CC ProDom; PD32162; Preproghrelin; 1.
 CC 3D-structure; Alternative splicing; Amidation;
 CC Direct protein sequencing; Hormone; Lipoprotein; Signal.
 KW SIGNAL 1 23
 FT PEPTIDE 24 51 Ghrelin-28.
 FT PEPTIDE 24 50 /FTID=PRO_0000019202.
 FT PEPTIDE 24 50 Ghrelin-27.
 FT PROPEP 52 75 /FTID=PRO_0000019203.
 FT PEPTIDE 76 98 /FTID=PRO_0000019204.
 FT PROPEP 99 117 Obestatin (By similarity).
 FT MOD_RES 98 98 /FTID=PRO_0000045140.
 FT LIPID 26 26 Removed in mature form (By similarity).
 FT LIPID 26 26 /FTID=PRO_0000045141.
 FT VARSPLIC 37 37 Leucine amide (G-99 provides amide group) (By similarity).
 FT O-decanoyl serine (in form ghrelin-27-C10 and form ghrelin-28-C10).
 FT O-octanoyl serine (in form ghrelin-27 and form ghrelin-28).
 FT Missing (in isoform 2).
 FT /FTID=VSP_003245.

FT CONFLICT 72 72 L -> M (in Ref. 6).
 FT STRAND 5 6
 FT STRAND 8 14
 FT TURN 15 16
 FT STRAND 17 24
 FT TURN 25 26
 FT STRAND 27 29
 FT HELIX 30 35
 FT TURN 36 36
 FT STRAND 37 37
 Alignment Scores:
 Pred. No.: 5,03e-11 Length: 117
 Score: 204.00 Matches: 51
 Percent Similarity: 44.1% Conservatives: 1
 Best Local Similarity: 43.2% Mismatches: 0
 Query Match: 31.7% Indels: 66
 DB: 1 Gaps: 1
 US-10-659-782B-11_COPY_112_462 (1-351) x GHRL_HUMAN (1-117)
 QY 1 ATGCCTCCCGAGGACCGTCTGAGCCTCTGCTCTCGGCGATGCTCTGGCTGGACTTG 60
 Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuLeuGlyWetLeuTrpLeuAspLeu 20
 QY 61 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACCGAGAGTCCAGGTGAGACCTCCC 120
 Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
 QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACGAGCTCTGTGACCTGGAG 180
 Db 37 ----- 37
 QY 181 CAGAGCGCCATCTCTGGGCTTCACTTCTCCAGAGACAAAGAGCTCTGGGTCTGAC 240
 Db 37 ----- 37
 QY 241 CTCACCTGTTCTTGAAGGACATGGGGCTTAGAGTCTTAACAGAGCTGTTCCCTTCC 300
 Db 37 ----- 37
 QY 301 AGCAGAGAAGAGTCTGAGAGCAGCCAGCAGCCAGCTGAGCCCGAGCT 350
 Db 38 -----ArglysglusSerLysLysProProAlaLysLeuGlnProArgAla 52
 RESULT 3
 Q6UDE7 MACMU PRELIMINARY; PRT; 117 AA.
 AC Q6UDE7;
 DT 05-JUL-2004, integrated into UniProtKB/TrEMBL.
 DT 05-JUL-2004, sequence version 1.
 DT 07-FEB-2006, entry version 7.
 DE Ghrelin.
 GN Name=GHRL;
 OS Macaca mulatta (Rhesus macaque).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 OC Cercopitheidae; Cercopitheciinae; Macaca.
 OX NCBI_TaxID=9544;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX PubMed:14736731; DOI=10.1210/en.2003-1103;
 RA Angeloni S.V., Glynn N., Ambrosini G., Garant M.J., Dee Higley J.,
 RA Suomi S., Hansen B.C.;
 RT "Characterization of the rhesus monkey ghrelin gene and factors
 RT influencing ghrelin gene expression and fasting plasma levels.";
 RL Endocrinology 145:2197-2205(2004).
 CC Copyrighted by the UniProt Consortium, see <http://www.uniprot.org/terms>
 CC Distributed under the Creative Commons Attribution-NoDerivs License
 CC -----
 CC EMBL; AY372274; AAQ74837.1; -; Genomic_DNA.
 CC EMBL; AY371699; AAQ74381.1; -; mRNA.

DR GO: GO:0005576; C:extracellular region; IEA.
DR GO: GO:0016608; F:growth hormone-releasing hormone activity; IEA.
DR InterPro: IPR005441; Preproghrelin.
DR PANTHER: PTHR14122; Preproghrelin; 1.
FT NON_TER 36 36
SQ SEQUENCE 36 AA; 3887 MW; BEAF2F6ABDD6968BF CRC64;

Alignment Scores:
Pred. No.: 1.98e-09 Length: 36
Score: 187.00 Matches: 36
Percent Similarity: 100.0% Conservative: 0
Best Local Similarity: 100.0% Mismatches: 0
Query Match: 29.0% Indels: 0
DB: 2 Gaps: 0

US-10-659-782B-11_COPY_112_462 (1-351) x Q5Y392_HUMAN (1-36)

QY 1 ATGCCCTCCCGAGGACCGTCTCGAGCTCTCGCTCCGGCATGCTCTGGCTGACTTG 60
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTripleuAspLeu 20
QY 61 GCCATGGCAGGCTCCAGCTTCTCTGAGCCCTGAACACCAGAGAGTCCAG 108
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln 36

RESULT 5
GHRL_FELCA STANDARD; PRT; 117 AA.
ID AC O6BEG6; O6BEG5;
DT 27-SEP-2004, integrated into UniProtKB/Swiss-Prot.
DT 13-SEP-2004, sequence version 1.
DT 07-FEB-2006, entry version 17.
DE Appetite-regulating hormone precursor (Growth hormone secretagogue)
DE (Growth hormone-releasing peptide) (Motilin-related peptide)
DE [Contains: Ghrelin; Obestatin].
DE Name=GHRL;
OS Felis silvestris catus (Cat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Carnivora; Fissipedia; Felidae;
OC Felinae; Felis.
OX NCBI_TaxID=9685;
RN [1]
RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORMS 1 AND 2).
RT TISSUE=Stomach;
RA Lin X., Miyazato M., Kaiya H., Ida T., Kangawa K.;
RL "cDNA cloning of feline and caprine ghrelin."
RL Submitted (JUL-2002) to the EMBL/GenBank/DDAJ databases.
CC -!- FUNCTION: Ghrelin is a specific ligand for the growth hormone
CC secretagogue receptor type 1 (GHSR) inducing the release of growth
CC hormone from the pituitary. Has an appetite-stimulating effect,
CC induces adiposity and stimulates gastric acid secretion. Involved
CC in growth regulation (By similarity).
CC -!- FUNCTION: Obestatin is a specific ligand for the GPR39 receptor.
CC It has an appetite-reducing effect, results in decreased food
CC intake, and reduces gastric emptying activities and jejunal
CC motility (By similarity).
CC -!- SUBCELLULAR LOCATION: Secreted protein.
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Name=1; Synonyms=Ghrelin;
CC IsoId=O6BEG6-1; Sequences=Displayed;
CC Name=2; Synonyms=del-Gln14-ghrelin;
CC IsoId=O6BEG6-2; Sequences=VSP_011626;
CC -!- PTM: O-n-octanoylation is essential for ghrelin activity (By
CC similarity).
CC -!- PTM: Amidation of Leu-98 is essential for obestatin activity (By
CC similarity).
CC -!- SIMILARITY: Belongs to the motilin family.

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DR EMBL; AB089201; BAD34670.1; -; mRNA.

DR EMBL; AB089202; BAD34671.1; -; mRNA.
DR InterPro; IPR006737; motilin_assoc.
DR InterPro; IPR006738; motilin_ghrelin.
DR InterPro; IPR005441; Preproghrelin.
DR PANTHER; PTHR14122; Preproghrelin; 1.
DR Pfam; PF04643; Motilin_assoc; 1.
DR Pfam; PF04644; Motilin_ghrelin; 1.
DR PRINTS; PR01624; Motilin_ghrelin; 1.
DR ProDom; PD332162; Preproghrelin; 1.
KW Alternative splicing; Amidation; Hormone; Lipoprotein; Signal.
FT SIGNAL 1 23 By similarity.
FT PEPTIDE 24 51 Ghrelin (By similarity).
FT /FTId=PRO_0000019200.
FT /FTId=PRO_0000019201.
FT PROPEP 52 75 Removed in mature form (By similarity).
FT /FTId=PRO_0000019201.
FT PEPTIDE 76 98 Obestatin (By similarity).
FT /FTId=PRO_0000045138.
FT PROPEP 99 117 Removed in mature form (By similarity).
FT /FTId=PRO_0000045139.
FT MOD_RES 98 98 Leucine amide (G-99 provides amide group)
FT (By similarity).
FT LIPID 26 26 O-octanoyl serine (By similarity).
FT VARSPPLIC 37 37 Missing (in isoform 2).
FT /FTId=VSP_011626.
SQ SEQUENCE 117 AA; 12956 MW; 8235A5147FFP530 CRC64;

Alignment Scores:
Pred. No.: 2,92e-09 Length: 117
Score: 186.00 Matches: 47
Percent Similarity: 41.5% Conservative: 2
Best Local Similarity: 39.8% Mismatches: 3
Query Match: 28.9% Indels: 66
DB: 1 Gaps: 1

US-10-659-782b-11_copy_112_462 (1-351) x GHRL_FELCA (1-117)

QY 1 ATGCGCTCCCGAGGACCTGCGAGCTCTGCGATGCTCGGCTGGACTTG 60
DB 1 MetProSerProGlyThrValCysSerLeuLeuLeuPheSerMetLeuIrpAlaAspLeu 20
QY 61 GCATGGGAGGCTCCAGCTTCTGAGCCCTGAAACACAGAGAGTCCAGGTGAGACCTCCC 120
DB 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnLysValGln--Gln----- 37
QY 121 CACAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACAGCTCTGTGACCTGGAG 180
DB 37 ----- 37
QY 181 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAGGACTCTGGGTCTGAC 240
DB 37 ----- 37
QY 241 CTCACCTGTTTCTGGAAGGACATGGGGCTTAGAGTCTTAACAGAGCTGTTTCCCTTCC 300
DB 37 ----- 37
QY 301 ACCAGAGAAAGAGTCCAGAGAGCCACAGCCAGCTGAGCCCGAGCT 350
DB 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52

RESULT 6
ID Q8CH53_MERUN PRELIMINARY; PRT; 117 AA.
AC Q8CH53;
DT 01-MAR-2003, integrated into UniProtKB/TrEMBL.
DT 01-MAR-2003, sequence version 1.
DT 07-FEB-2006, entry version 12.
DE Ghrelin preproprotein.
OS Meriones unguiculatus (Mongolian jird) (Mongolian gerbil).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Muridae; Gerbillinae; Meriones.
OX NCBI_TaxID=10047;

RN [1]
RP NUCLEOTIDE SEQUENCE.
RX PubMed=14724148; DOI=10.1136/gut.2003.021568;
RA Suzuki H., Maseoka T., Hosoda H., Ota T., Minegishi Y., Nomura S.,
RA Kangawa K., Iehii H.,
RT "Helicobacter pylori infection modifies gastric and plasma ghrelin
RT dynamics in Mongolian gerbils."
RL Gut 53:187-194(2004).
CC
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CC
CC EMBL; AF424291; AA006965.1; -; mRNA.
DR GO; GO:0005576; C:extracellular region; IEA.
DR GO; GO:0018608; F:growth hormone-releasing hormone activity; IEA.
DR GO; GO:0050791; P:regulation of physiological process; IEA.
DR InterPro; IPR006737; motilin_assoc.
DR InterPro; IPR006738; motilin_ghrelin.
DR InterPro; IPR005441; Preproghrelin.
DR PANTHER; PTHR14122; Preproghrelin; 1.
DR Pfam; PF04643; Motilin_assoc; 1.
DR Pfam; PF04644; Motilin_ghrelin; 1.
DR PRINTS; PR01624; GHRELIN.
DR ProDom; PD332162; Preproghrelin; 1.
SQ SEQUENCE 117 AA; 13035 MW; 27657687FC026A74 CRC64;

Alignment Scores:
Pred. No.: 6,89e-08 Length: 117
Score: 172.00 Matches: 44
Percent Similarity: 41.5% Conservative: 5
Best Local Similarity: 37.3% Mismatches: 3
Query Match: 26.7% Indels: 66
DB: 2 Gaps: 1

US-10-659-782b-11_copy_112_462 (1-351) x Q8CH53_MERUN (1-117)

QY 1 ATGCGCTCCCGAGGACCTGCGAGCTCTGCGATGCTCGGCTGGACTTG 60
DB 1 MetMetSerSerGlyThrIleCysSerLeuLeuLeuGlyValLeuIrpMetAspVal 20
QY 61 GCATGGGAGGCTCCAGCTTCTGAGCCCTGAAACACAGAGAGTCCAGGTGAGACCTCCC 120
DB 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnLys--Thr----- 35
QY 121 CACAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACAGCTCTGTGACCTGGAG 180
DB 35 ----- 35
QY 181 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAGGACTCTGGGTCTGAC 240
DB 35 ----- 35
QY 241 CTCACCTGTTTCTGGAAGGACATGGGGCTTAGAGTCTTAACAGAGCTGTTTCCCTTCC 300
DB 36 -----G 36
QY 301 ACCAGAGAAAGAGTCCAGAGAGCCACAGCCAGCTGAGCCCGAGCT 350
DB 36 InGlnArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52

RESULT 7
ID GHRL_CAPHI
AC Q6BEG7;
DT 27-SEP-2004, integrated into UniProtKB/Swiss-Prot.
DT 13-SEP-2004, sequence version 1.
DT 07-FEB-2006, entry version 16.
DE Appetite-regulating hormone precursor (Growth hormone secretagogue)
DE (Growth hormone-releasing peptide) (Motilin-related peptide)
DE [Contains: Ghrelin; Obestatin].
GN Name=GHRL;
OS Capra hircus (Goat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 OC Pecora; Bovidae; Caprinae; Capra.
 OX NCBI_TaxID=9925;
 RN [1]
 RP NUCLEOTIDE SEQUENCE [MRNA].
 RC TISSUE=Stomach;
 RA Lin X., Miyazato M., Kaiya H., Ida T., Kangawa K.;
 RT "cDNA cloning of feline and caprine ghrelin";
 RL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.
 CC -!- FUNCTION: Ghrelin is a specific ligand for the growth hormone
 CC secretagogue receptor type 1 (GHSR) inducing the release of growth
 CC hormone from the pituitary. Has an appetite-stimulating effect,
 CC induces adiposity and stimulates gastric acid secretion. Involved
 CC in growth regulation (By similarity).
 CC -!- FUNCTION: Obestatin is a specific ligand for the GPR39 receptor.
 CC It has an appetite-reducing effect, results in decreased food
 CC intake, and reduces gastric emptying activities and jejunal
 CC motility (By similarity).
 CC SUBCELLULAR LOCATION: Secreted protein.
 CC -!- PTM: O-n-octanoylation is essential for ghrelin activity (By
 CC similarity).
 CC -!- PTM: Amidation of Leu-97 is essential for obestatin activity (By
 CC similarity).
 CC -!- SIMILARITY: Belongs to the motilin family.
 CC
 CC Copyrighted by the UniProt Consortium, see <http://www.uniprot.org/terms>
 CC Distributed under the Creative Commons Attribution-NoDerivs License
 CC
 CC EMBL; AB089200; BAD34669.1; -; mRNA.
 DR InterPro; IPR006737; motilin_assoc.
 DR InterPro; IPR006738; motilin_ghrelin.
 DR InterPro; IPR005441; Preproghrelin.
 DR PANTHER; PTHR14122; Preproghrelin; 1.
 DR Pfam; PF04643; Motilin_assoc; 1.
 DR Pfam; PF04644; Motilin_ghrelin; 1.
 DR PRINTS; PR01624; GHRELIN.
 DR ProDom; PD32162; Preproghrelin; 1.
 KW Amidation; Hormone; Lipoprotein; Signal.
 FT SIGNAL 1 23 By similarity.
 FT PEPTIDE 24 50
 FT Ghrelin (By similarity).
 FT /FTID=PRO_0000019198.
 FT Removed in mature form (By similarity).
 FT PROPEP 51 74
 FT /FTID=PRO_0000019199.
 FT PEPTIDE 75 97
 FT Obestatin (By similarity).
 FT /FTID=PRO_0000045136.
 FT PROPEP 98 116
 FT Removed in mature form (By similarity).
 FT /FTID=PRO_0000045137.
 FT MOD_RES 97 97
 FT Leucine amide (G-98 provides amide group)
 FT (By similarity).
 FT LIPID 26 26
 FT O-octanoyl serine (By similarity).
 SQ SEQUENCE 116 AA; 12935 MW; CDA67971D72E3303 CRC64;
 Alignment Scores:
 Pred. No.: 7.7e-08 Length: 116
 Score: 171.50 Matches: 42
 Percent Similarity: 56.1% Conservative: 13
 Best Local Similarity: 42.9% Mismatches: 34
 Query Match: 26.6% Indels: 9
 DB: 1 Gaps: 2
 US-10-659-782B-11_COPY_112_462 (1-351) x GHRL_CAPHI (1-116)
 QY 1 ATGCCCTCCAGGACCGTCTGCGAGCTCTGCTCTGCGCATGCTCTGGCTGGACTTG 60
 Db 1 MetProAlaProArgThrIleCysSerLeuLeuLeuLeuSerMetLeuTrpMetAspLeu 20
 QY 61 GCCATGGCAGGCTCCAGCTTCTCTGAGCCCTGAACACACAGAGTCCAGGTGAGACTCCC 120
 Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnLysLeuGlnArgLysGluPro 40
 QY 121 CACAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACGAGTCTGTTGACCTG 177
 Db 41 LysLysProSerGlyArgLeuLysProArgAlaLeuGluGlnPheAspProAspVal 60

QY 178 GAGCAGCAGCCCAT-----CTCTGGCTTCACTCTCTCTCC 213
 Db 61 GlySerGlnGluGluGlyAlaGluAspGluLeuGluIleArgPheAsnAlaProPheAsn 80
 QY 214 CAGAGCACAAAGGACTCTGGGCTCTGACCTCACTGTTCTGGGAAGGACATGGGGG 267
 Db 81 lIleGlyIleLysLeuSerGlyAlaGlnSerLeuGlnHisGlyGlnThrLeuGly 98
 RESULT 8
 Q811T4_MOUSE PRELIMINARY; PRT; 86 AA.
 AC Q811T4;
 DT 01-JUN-2003, integrated into UniProtKB/TrEMBL.
 DT 01-JUN-2003, sequence version 1.
 DT 07-FEB-2006, entry version 15.
 DE Exon 4-deleted preproghrelin variant.
 GN Name=Ghrl;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Murioidea; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=Swiss;
 RX PubMed=15471962; DOI=10.1210/en.2003-1466;
 RA Jeffery P.B., Duncan R.P., Yeh A.H., Jaskolski R.A., Hammond D.S.,
 RA Herington A.C., Chopin L.K.;
 RT "Expression of the ghrelin axis in the mouse: an exon 4-deleted mouse
 RT preproghrelin variant encodes a novel C terminal peptide";
 RL Endocrinology 146:432-440(2005).
 CC
 CC Copyrighted by the UniProt Consortium, see <http://www.uniprot.org/terms>
 CC Distributed under the Creative Commons Attribution-NoDerivs License
 CC
 CC EMBL; AY179430; AAO27350.1; -; mRNA.
 DR Ensembl; ENSMUSG0000064177; Mus musculus.
 DR MGI; MGI:1930008; Ghrl.
 DR GO; GO:0005737; Cytoplasm; IDA.
 DR GO; GO:0005615; Extracellular space; RCA.
 DR GO; GO:0016608; F:growth hormone-releasing hormone activity; RCA.
 DR InterPro; IPR006738; motilin_ghrelin.
 DR InterPro; IPR005441; Preproghrelin.
 DR PANTHER; PTHR14122; Preproghrelin; 1.
 DR Pfam; PF04644; Motilin_ghrelin; 1.
 DR PRINTS; PR01624; GHRELIN.
 SQ SEQUENCE 86 AA; 9758 MW; B913858874770512 CRC64;
 Alignment Scores:
 Pred. No.: 1.04e-07 Length: 86
 Score: 170.00 Matches: 44
 Percent Similarity: 40.7% Conservative: 4
 Best Local Similarity: 37.3% Mismatches: 4
 Query Match: 26.4% Indels: 66
 DB: 2 Gaps: 1
 US-10-659-782B-11_COPY_112_462 (1-351) x Q811T4_MOUSE (1-86)
 QY 1 ATGCCCTCCAGGACCGTCTGCGAGCTCTGCTCTGCGCATGCTCTGGCTGGACTTG 60
 Db 1 MetLeuSerSerGlyThrIleCysSerLeuLeuLeuLeuSerMetLeuTrpMetAspMet 20
 QY 61 GCCATGGCAGGCTCCAGCTTCTCTGAGCCCTGAACACACAGAGTCCAGGTGAGACTCCC 120
 Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnLys--Ala----- 35
 QY 121 CACAAGCCCCACATGTTGTTTCCAGCCCTGCCACTTAGCAACACGAGTCTGTGACCTGGAG 180
 Db 35 ----- 35
 QY 181 CAGCAGCCCATCTCTGGGCTTCACTCTTCTCCAGAGCACAAAGGACTCTGGTCTGAC 240

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Db 35 ----- 35
QY 241 CTCACGTGTTTTCGGAAGGACATGGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTCC 300
Db 36 -----G 36
QY 301 AGCAGAGAAAGGAGTCTGAAGAGCCACCAAGCTGAGCCCGAGCT 350
Db 36 InGlnArgLysGlySerLysProProlAlaLysLeuGlnProArgAla 52

RESULT 9
ID_GHRL_MOUSE STANDARD; PRT; 117 AA.
AC Q9EX0: Q9EX0;
DT 13-DEC-2001, integrated into UniProtKB/Swiss-Prot.
DT 01-MAR-2001, sequence version 1.
DE Appetite-regulating hormone precursor (Growth hormone secretagogue)
DE (Growth hormone-releasing peptide) (Motilin-related peptide) (M46
DE protein) [Contains: Ghrelin, Obestatin].
GN Name=Ghrl; Synonyms=Mtlrp;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORMS 1 AND 2), PROTEIN SEQUENCE OF
RP 24-30, SUBCELLULAR LOCATION, AND TISSUE SPECIFICITY.
RC TISSUE=Stomach;
RX MEDLINE=20389976; PubMed=10930375;
RA Tomasetto C., Karam S.M., Ribieras S., Masson R., Lefebvre O.,
RA Staub A., Alexander G., Chenard M.-P., Rio M.-C.;
RT "Identification and characterization of a novel gastric peptide
RT hormone: the motilin-related peptide.";
RL Gastroenterology 119:395-405(2000).
RN [2]
RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1).
RA Kojima M.;
RT "Mouse mRNA for preproghrelin.";
RL Submitted (DEC-1999) to the EMBL/GenBank/DBJ databases.
RN [3]
RP NUCLEOTIDE SEQUENCE [GENOMIC DNA] (ISOFORM 1).
RA Tanaka M., Hayashida Y., Iguchi T., Nakao N., Nakai N., Nakashima K.;
RL Submitted (Apr-2001) to the EMBL/GenBank/DBJ databases.
RN [4]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
RX STRAIN=C57BL/6J; TISSUE=Stomach;
RX PubMed=16141072; DOI=10.1126/science.1112014;
RA Carninci P., Kasukawa T., Katayama S., Gough J., Frith M.C., Maeda N.,
RA Oyama R., Ravasi T., Lenhard B., Wells C., Kodzius R., Shimokawa K.,
RA Bajic V.B., Brenner S.E., Batalov S., Forrest A.R., Zavolan M.,
RA Davis M.J., Wilming L.G., Aidinis V., Allen J.E.,
RA Ambesi-Impombato A., Adeweller R., Aturaliya R.N., Bailey T.L.,
RA Bansal M., Baxter L., Beisel K.W., Bersano T., Bono H., Chalk A.M.,
RA Chiu K.P., Choudhary V., Christoffels A., Clutterbuck D.R.,
RA Crowe M.L., Dalla E., Dalrymple B.P., de Bono B., Della Gatta G.,
RA di Bernardo D., Down T., Engstrom P., Fagioli M., Faulkner G.,
RA Fletcher C.F., Fukushima T., Furuno M., Futaki S., Gariboldi M.,
RA Georgii-Hemming P., Gingeras T.R., Gojobori T., Green R.E.,
RA Gustigich S., Harbers M., Hayashi Y., Hensch T.K., Hirokawa N.,
RA Hill D., Huminecki L., Iacono M., Ikeo K., Iwama A., Ishikawa T.,
RA Kitano M., Kanapin A., Katoh M., Kawasawa Y., Keiso J., Kitamura H.,
RA Kurochkin I.V., Lareau L.F., Lazarevic D., Lipovich L., Liu J.,
RA Liuni S., McWilliam S., Madan Babu M., Madera M., Marchionni L.,
RA Matsuda H., Matsuzawa S., Miki H., Mignone F., Miyake S., Morris K.,
RA Mottagui-Farab S., Mulder N., Nakano N., Nakachi H., Ng P.,
RA Nilsen R., Nishiguchi S., Nishikawa S., Nori F., Ohara O.,
RA Okazaki Y., Orlando V., Pang K.C., Pavan W.J., Pavese G., Pesole G.,
RA Petrovsky N., Piazza S., Reed J.F., Ring B.Z., Ringwald M.,
RA Rost B., Ruan Y., Salzberg S.L., Sandelin A., Schneider C.,
RA Schonbach C., Sekiguchi K., Sempile C.A., Seno S., Sessa L., Sheng Y.,

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RA Shibata Y., Shimada H., Shimada K., Silva D., Sinclair B.,
RA Sperling S., Stupka E., Sugita K., Sultana R., Takenaka Y., Taki K.,
RA Tammoja K., Tan S.L., Tang S., Taylor M.S., Tegner J., Teichmann S.A.,
RA Ueda H.R., van Nimwegen E., Verardo R., Wei C.L., Yagi K.,
RA Yamaniishi H., Zabarovsky E., Zhu S., Zimmer A., Hide W., Bult C.,
RA Grimmond S.M., Teasdale R.D., Liu E.T., Brusic V., Quackenbush J.,
RA Wahlestedt C., Mattick J.S., Hume D.A., Kai C., Sasaki D., Tomaru Y.,
RA Fukuda S., Kanamori-Katayama M., Suzuki M., Aoki J., Arakawa T.,
RA Iida J., Knamura K., Itoh M., Kato T., Kawaji H., Kawagashira N.,
RA Kawashima T., Kojima M., Kondo S., Konno H., Nakano K., Ninomiya N.,
RA Nishio T., Okada M., Plessy C., Shibata K., Shiraki T., Suzuki S.,
RA Tagami M., Waki K., Watahiki A., Okamura-Oho Y., Suzuki H., Kawai J.,
RA Hayashizaki Y.;
RT "The transcriptional landscape of the mammalian genome.";
RL Science 309:1559-1563(2005).
RN [5]
RP DEVELOPMENTAL STAGE, AND ACYLATION OF SER-26.
RX PubMed=15746259; DOI=10.1210/en.2004-0645;
RA Nishi Y., Hiejima H., Mifune H., Sato T., Kangawa K., Kojima M.;
RT "Developmental changes in the pattern of ghrelin's acyl modification
RT and the levels of acyl-modified ghrelin in murine stomach.";
RL Endocrinology 146:2709-2715(2005).
RN [6]
RP REVIEW.
RX MEDLINE=21203998; PubMed=11306336; DOI=10.1016/S1043-2760(00)00362-3;
RA Kojima M., Hosoda H., Matsuo H., Kangawa K.;
RT "Ghrelin: discovery of the natural endogenous ligand for the growth
RT hormone secretagogue receptor.";
RL Trends Endocrinol. Metab. 12:118-122(2001).
CC -!- FUNCTION: Ghrelin is a specific ligand for the growth hormone
CC secretagogue receptor type 1 (GHSR) inducing the release of growth
CC hormone from the pituitary. Has an appetite-stimulating effect,
CC induces adiposity and stimulates gastric acid secretion. Involved
CC in growth regulation.
CC -!- FUNCTION: Obestatin is a specific ligand for the GPR39 receptor.
CC It has an appetite-reducing effect, results in decreased food
CC intake, and reduces gastric emptying activities and jejunal
CC motility (by similarity).
CC -!- SUBCELLULAR LOCATION: Secreted protein.
CC -!- ALTERNATIVE PRODUCTS:
CC Name=1; Synonyms=Ghrelin;
CC IsoId=Q9EX0-1; Sequence=Displayed;
CC Name=2; Synonyms=del-Gln14-ghrelin;
CC IsoId=Q9EX0-2; Sequence=VSP_003246;
CC -!- TISSUE SPECIFICITY: Mainly expressed in the gastrointestinal tract
CC with higher levels in the stomach, medium levels in the duodenum,
CC jejunum, ileum and colon. Low expression in the testis and brain.
CC Not detected in the salivary gland, pancreas, liver and lung.
CC -!- DEVELOPMENTAL STAGE: Levels of n-octanoylated and n-decanoylated
CC ghrelin drop by one third and 3-fold, respectively, between
CC postnatal weeks 3 and 4 due to change of diet during weaning.
CC -!- PTM: O-n-octanoylation is essential for ghrelin activity (by
CC similarity). The O-n-decanoylated form ghrelin-C10 differs in the
CC length of the carbon backbone of the carboxylic acid bound to Ser-
CC 26.
CC -!- PTM: Amidation of Leu-98 is essential for obestatin activity (by
CC similarity).
CC -!- SIMILARITY: Belongs to the motilin family.
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CC -----
CC EMBL; AJ243503; CAB46500.1; -; mRNA.
CC EMBL; AB035701; BAB19046.1; -; mRNA.
CC EMBL; AB060078; BAB69857.1; -; Genomic_DNA.
CC EMBL; AK008658; BAB25814.1; -; mRNA.
CC EMBL; AK008860; BAB25934.1; -; mRNA.
CC Ensemble; ENSMUSG00000064177; Mus musculus.
CC MGI; MGI:1930008; Ghrl.
CC GO; GO:0005737; Cytoplasm; IDA.
CC GO; GO:0005615; Extracellular space; TAS.
CC GO; GO:0005179; Hormone activity; TAS.

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GHRL_RAT GHRL_RAT STANDARD; PRT; 117 AA.
AC Q9QYH7; Q9ET69;
DT 13-DEC-2001, integrated into UniProtKB/Swiss-Prot.
DT 01-MAY-2000, sequence version 1.
DT 07-MAR-2006, entry version 19.
DE Appetite-regulating hormone precursor (Growth hormone secretagogue)
DE (Growth hormone-releasing peptide) (Motilin-related peptide)
DE [Contains: Ghrelin; Obestatin-23; Obestatin-13].
GN Name=Ghrl;
GN Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muroidae; Muridae; Murinae; Rattus.
OX NCBI_taxid=10116;
[1]
RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1), PROTEIN SEQUENCE OF 24-51,
RP MASS SPECTROMETRY, AND ACYLATION OF SER-26.
RP STRAIN=Sprague-Dawley; TISSUE=Stomach;
RP MEDLINE=20067959; PubMed=10604470; DOI=10.1038/45230;
RA Kojima M., Hosoda H., Date Y., Nakazato M., Matsuo H., Kangawa K.;
RT "Ghrelin is a growth-hormone-releasing acylated peptide from
RT stomach.";
RT Nature 402:656-660 (1999) .
[2]
RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORMS 1 AND 2), PROTEIN SEQUENCE OF
RP 24-51, MASS SPECTROMETRY, AND ACYLATION OF SER-26.
RP STRAIN=Sprague-Dawley; TISSUE=Stomach;
RP MEDLINE=20357315; PubMed=10801861; DOI=10.1074/jbc.M002784200;
RA Hosoda H., Kojima M., Matsuo H., Kangawa K.;
RP "Purification and characterization of rat des-Gln14-ghrelin, a second
RP endogenous ligand for the growth hormone secretagogue receptor.";
RP J. Biol. Chem. 275:21995-22000 (2000) .
[3]
RP PROTEIN SEQUENCE OF 76-95, FUNCTION OF OBESTATIN, CHARACTERIZATION,
RP AMIDATION, MASS SPECTROMETRY, AND INTERACTION WITH GPR39.
RP PubMed=16284174; DOI=10.1126/science.117255;
RA Zhang J.Y., Ren P.G., Avsian-Kretschmer O., Luo C.W., Rauch R.,
RA Zhang J.Y., Ren P.G., Avsian-Kretschmer O., Luo C.W., Rauch R.,

Klein C., Hsueh A.J.;
"Obestatin, a peptide encoded by the ghrelin gene, opposes ghrelin's effects on food intake."; Science 310:996-999(2005).
[4]
CHARACTERIZATION
MEDLINE=211092536; PubMed=11162448; DOI=10.1006/bbrc.2000.4039;
Hosoda H., Kojima M., Matsuo H., Kangawa K.;
"Ghrelin and des-acyl ghrelin: two major forms of rat ghrelin peptide in gastrointestinal tissue."; Biochem. Biophys. Res. Commun. 279:909-913(2000).
[5]
STRUCTURE-ACTIVITY RELATIONSHIP
MEDLINE=21134388; PubMed=11549287; DOI=10.1006/bbrc.2001.5553;
Matsumoto M., Hosoda H., Kitajima Y., Morozumi N., Minamitake Y., Tanaka S., Matsuo H., Kojima M., Hayaashi Y., Kangawa K.;
"Structure-activity relationship of ghrelin: pharmacological study of ghrelin peptides."; Biochem. Biophys. Res. Commun. 287:142-146(2001).
[6]
REVIEW
MEDLINE=21203998; PubMed=11306336; DOI=10.1016/S1043-2760(00)00362-3;
Kojima M., Hosoda H., Matsuo H., Kangawa K.;
"Ghrelin: discovery of the natural endogenous ligand for the growth hormone secretagogue receptor."; Trends Endocrinol. Metab. 12:118-122(2001).
-!- FUNCTION: Ghrelin is a specific ligand for the growth hormone secretagogue receptor type 1 (GHSR) inducing the release of growth hormone from the pituitary. Has an appetite-stimulating effect, induces adiposity and stimulates gastric acid secretion. Involved in growth regulation.
-!- FUNCTION: Obestatin is a specific ligand for the GPR39 receptor. It has an appetite-reducing effect, results in decreased food intake, and reduces gastric emptying activities and jejunal motility.
-!- SUBCELLULAR LOCATION: Secreted protein.
-!- ALTERNATIVE PRODUCTS
Event=Alternative splicing; Named isoforms=2;
Name=1; Synonyms=Ghrelin;
IsoId=09QYH7-1; Sequence=Displayed;
Name=2; Synonyms=del-Gln14-ghrelin;
IsoId=09QYH7-2; Sequence=VSP_003248;
-!- TISSUE SPECIFICITY: Ghrelin is broadly expressed with higher expression in the stomach. Very low levels are detected in the hypothalamus, heart, lung, pancreas, intestine and adipose tissue. Obestatin is most highly expressed in jejunum, and also found in duodenum, stomach, pituitary, ileum, liver, hypothalamus and heart. Expressed in low levels in pancreas, cerebellum, cerebrum, kidney, testis, ovary colon and lung.
-!- PTM: O-n-octanoylation is essential for ghrelin activity. The replacement of Ser-26 by aromatic tryptophan preserves ghrelin activity.
-!- PTM: Amidation of Leu-98 is essential for obestatin activity.
-!- MASS SPECTROMETRY: MW=3314.9; MW ERR=0.7; METHOD=Electrospray; RANGE=24-51 (Q9QYH7-1); NOTE=Ref.1
-!- MASS SPECTROMETRY: MW=3187.1; MW ERR=0.6; METHOD=Electrospray; RANGE=24-50 (Q9QYH7-2); NOTE=Ref.2
-!- MASS SPECTROMETRY: MW=2516.3; METHOD=Unknown; RANGE=76-98; NOTE=Ref.5
-!- SIMILARITY: Belongs to the motilin family.
-!- DATABASE: NAME=Protein Spotlight; NOTE=Issue 66 of January 2006; WWW="http://www.expasy.org/spotlight/back_issues/sptlt066.htm".

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EMBL; AB029433; BAA89370.1; -; mRNA.
EMBL; AB035699; BAB11956.1; -; mRNA.
PIR; B59316; B59316.
Ensembl; ENSRNOG0000010349; Rattus norvegicus.
RGD; 632283; Ghrl.
GO; GO:0005615; C:extracellular space; IC.
GO; GO:0001664; F:G-protein-coupled receptor binding; IPI.

DR GO; GO:0016608; F: growth hormone-releasing hormone activity; IDA.
DR GO; GO:0007186; P: G-protein coupled receptor protein signalin. . .; IDA.
DR GO; GO:0050791; P: regulation of physiological process; NAS.
DR InterPro; IPR006737; motifin_assoc.
DR InterPro; IPR006738; motifin_ghrelin.
DR InterPro; IPR005441; Preproghrelin.
DR PANTHER; PTHR14122; Preproghrelin; 1.
DR Pfam; PF04643; Motilin_assoc; 1.
DR Pfam; PF04644; Motilin_ghrelin; 1.
DR PRINTS; PR01624; GHRELIN.
DR ProDom; PD332162; Preproghrelin; 1.
KW Alternative splicing; Amidation; Direct protein sequencing; Hormone;
KW Lipoprotein; Signal.
FT SIGNAL 1 23 Ghrelin.
FT PEPTIDE 24 51 /FTID=PRO_0000019209.
FT PROPEP 52 75 Removed in mature form.
FT PEPTIDE 76 98 /FTID=PRO_0000019210.
FT PEPTIDE 86 98 Obesatatin-23.
FT PROPEP 99 117 /FTID=PRO_0000045146.
FT MOD_RES 98 98 Obesatatin-13 (probable).
FT LIPID 26 26 /FTID=PRO_0000045147.
FT VARSP 37 37 Removed in mature form.
FT SEQUENCE 117 AA; 13176 MW; 8857546FE51A7691 CRC64;
Alignment Scores:
Pred. No.: 3,34e-07 Length: 117
Score: 1e5.00 Matches: 43
Percent Similarity: 39.8% Conservative: 4
Best Local Similarity: 36.4% Mismatches: 5
Query Match: 25.6% Indels: 6
DB: 1 Gaps: 1
US-10-659-782B-11_COPY_112_462 (1-351) x GHRL_RAT (1-117)
QY 1 ATGCCCTCCCGAGGACCGTCTGAGCCCTCTGCTGGCAGTCTCTGGTGGACTTG 60
Db 1 MetValSerSerAlaThrileCysSerLeuLeuLeuLeuSerMetLeuTrpMetAspMet 20
QY 61 GCCATGGAGGCTCCAGCTTCTGAGCCCTGAAACACGAGAGTCCAGGTGAGACTCCC 120
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnLys--Ala----- 35
QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACGCTCTGTGACCTGGAG 180
Db 35 ----- 35
QY 181 CAGACGCGCATCTCTGGGCTTACGTCTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 240
Db 35 ----- 35
QY 241 CTCACGTGTTCTGGAGGACATGGGGGCTTAGAGTCTTAACAGACTGTTTCCCTTCC 300
Db 36 -----G 36
QY 301 AGCAGAAAGAGTCTGAAAGAGCCACACGACCAAGCTGAGCCCGAGCT 350
Db 36 InGlnArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52
RESULT 12
Q7TSD1 MOUSE
ID Q7TSD1_MOUSE PRELIMINARY; PRT; 78 AA.
AC Q7TSD1_1
DT 01-OCT-2003, integrated into UniProtKB/TrEMBL.
DT 01-OCT-2003, sequence version 1.
DT 07-FEB-2006, entry version 11.
DE Ghrelin delta2.

GN Name=Ghrl; Synonyms=Ghrelin;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridea; Muridae; Murinae; Mus.
RX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA Hisatomi H., Nagao K., Hirata H., Kawano K., Hibi N.;
RL Submitted (JUN-2003) to the EMBL/GenBank/DBJ databases.
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CC -----
DR EMBL; AB111891; BAC77409.1; -; mRNA.
DR Ensembl; ENSMUSG0000064177; Mus musculus.
DR MGI; MGI:1930008; Ghrl.
DR GO; GO:0005737; C:cytoplasm; IDA.
DR GO; GO:0005615; C:extracellular space; RCA.
DR GO; GO:0016608; F: growth hormone-releasing hormone activity; RCA.
DR InterPro; IPR006737; motifin_assoc.
DR InterPro; IPR005441; Preproghrelin.
DR PANTHER; PTHR14122; Preproghrelin; 1.
DR Pfam; PF04643; Motilin_assoc; 1.
DR PRINTS; PR01624; GHRELIN.
DR ProDom; PD332162; Preproghrelin; 1.
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Score: 158.50 Matches: 37
Percent Similarity: 52.7% Conservative: 11
Best Local Similarity: 40.7% Mismatches: 18
Query Match: 24.6% Indels: 25
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Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnLysAlaGlnPheAsnAlaPro 40
QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACGCTCTGTGACCTGGAG 180
Db 41 -----PheAspValGlyIleLysLeuSerGlyAlaGln 51
QY 181 CAGCAGCGCCAT-----CTCTGGGCTTCAGTC 207
Db 52 TyrGlnGlnHisGlyArgAlaLeuGlyLysPheLeuGlnAspIleLeuTrpGluGluVal 71
QY 208 TTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 240
Db 72 -----LysGluAlaProAlaAsp 77
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AC Q863L0;
DT 01-JUN-2003, integrated into UniProtKB/TrEMBL.
DT 01-JUN-2003, sequence version 1.
DT 07-FEB-2006, entry version 12.
DE Preproghrelin precursor.
OS Ovis aries (Sheep).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
OC Pecora; Bovidae; Caprinae; Ovis.
OX NCBI_TaxID=9940;
RN [1]
RP NUCLEOTIDE SEQUENCE.

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 NP NUCLEOTIDE SEQUENCE.
 RP Kim K.-S., Rothschild M.F.;
 RA "Pig Ghrelin.";
 RT Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.
 RL
 CC
 CC Copyrighted by the Uniprot Consortium, see <http://www.uniprot.org/terms>
 CC Distributed under the Creative Commons Attribution-NoDerivs License
 CC
 CC ENBL; AY373019; AAR24571.1; -; Genomic_DNA.
 DR GO; GO:0005576; C:extracellular region; IEA.
 DR GO; GO:0016608; F:growth hormone-releasing hormone activity; IEA.
 DR

DR GO: GO:0050791; P:regulation of physiological process; IEA.

DR InterPro; IPR006738; motilin ghrelin.

DR InterPro; IPR005441; Preproghrelin.

DR PANTHER; PTHR14122; Preproghrelin; 1.

DR Pfam; PF04644; Motilin ghrelin; 1.

DR PRINTS; PR01624; GHRELIN.

FT NON TER 74

SQ SEQUENCE 74 AA; 7980 MW; 875424C2D41FC166 CRC64;

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QY 118 CCCCAAAAGCCCCA 132

Db 41 GluSerLysLysPro 45

Search completed: July 11, 2006, 16:34:50

Job time : 194 secs

GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: July 11, 2006, 16:35:06 ; Search time 7.2 Seconds
(without alignments)
1280.135 Million cell updates/sec

Title: US-10-659-782B-11_COPY_112_462

Perfect score: 644
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Scoring table:

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 1301182

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALLIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
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-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

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4: /EMC_Celerra_SIDS3/ptodata/2/iaa/H_COMB.pep.*
5: /EMC_Celerra_SIDS3/ptodata/2/iaa/PTCUS_COMB.pep.*
6: /EMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep.*
7: /EMC_Celerra_SIDS3/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	204	31.7	117	2	US-09-046-479-2
2	204	31.7	117	2	US-08-822-897C-2
3	204	31.7	117	2	US-09-608-810A-4
4	204	31.7	117	2	US-09-404-417A-2
5	204	31.7	117	2	US-09-794-987-2
6	204	31.7	117	2	US-09-853-253-2
7	204	31.7	117	2	US-09-991-181-268
8	204	31.7	117	2	US-09-990-444-268
9	204	31.7	117	2	US-09-796-158-2
10	204	31.7	117	2	US-09-997-333-268
11	204	31.7	117	2	US-09-992-598-268

12	204	31.7	117	2	US-09-989-735-268	Sequence 268, App
13	204	31.7	117	3	US-09-989-726-268	Sequence 268, App
14	204	31.7	117	3	US-09-997-514-268	Sequence 268, App
15	204	31.7	117	3	US-09-989-728-268	Sequence 268, App
16	204	31.7	117	3	US-09-997-349-268	Sequence 268, App
17	204	31.7	117	3	US-09-997-653-268	Sequence 268, App
18	204	31.7	117	3	US-09-989-293A-268	Sequence 268, App
19	109	16.9	181	2	US-09-252-991A-28538	Sequence 28538, A
20	91.5	14.2	138	2	US-09-252-991A-25834	Sequence 25834, A
21	91	14.1	355	2	US-08-483-533-41	Sequence 41, Appl
22	91	14.1	355	2	US-09-283-471A-41	Sequence 41, Appl
23	91	14.1	355	5	PCT-US91-06532-3	Sequence 3, Appli
24	89.5	13.9	159	2	US-09-252-991A-30696	Sequence 30696, A
25	88.5	13.7	483	2	US-09-252-991A-19224	Sequence 19224, A
26	86.5	13.4	272	2	US-09-199-637A-311	Sequence 311, App
27	86.5	13.4	462	2	US-09-252-991A-29947	Sequence 29947, A
28	86	13.4	427	2	US-09-252-991A-17391	Sequence 17391, A
29	85.5	13.3	210	2	US-09-252-991A-31903	Sequence 31903, A
30	85.5	13.3	567	2	US-09-252-991A-21426	Sequence 21426, A
31	85	13.2	224	2	US-10-094-749-2453	Sequence 2453, Ap
32	85	13.2	521	2	US-09-538-092-1330	Sequence 1330, Ap
33	85	13.2	521	2	US-09-949-016-6672	Sequence 6672, Ap
34	85	13.2	521	5	PCT-US93-08386-10	Sequence 10, Appl
35	85	13.2	526	2	US-09-949-016-11505	Sequence 11505, A
36	84.5	13.1	28	2	US-10-276-392-20	Sequence 20, Appl
37	84.5	13.1	335	2	US-09-252-991A-24899	Sequence 24899, A
38	84	13.0	28	2	US-10-276-392-19	Sequence 19, Appl
39	83.5	13.0	28	2	US-09-880-498-1	Sequence 1, Appli
40	83.5	13.0	28	2	US-10-276-392-1	Sequence 1, Appli
41	83.5	13.0	28	2	US-10-276-392-7	Sequence 7, Appli
42	83.5	13.0	28	2	US-10-276-392-8	Sequence 8, Appli
43	83.5	13.0	28	2	US-10-276-392-9	Sequence 9, Appli
44	83.5	13.0	28	2	US-10-276-392-10	Sequence 10, Appl
45	83.5	13.0	28	2	US-10-276-392-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1

US-09-046-479-2
; Sequence 2, Application US/09046479
; Patent No. 6291653
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Deisher, Theresa A.
; TITLE OF INVENTION: MOTILIN HOMOLOGS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 1201 Eastlake Avenue East
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/046,479
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sawislak, Deborah A
; REGISTRATION NUMBER: 37,438
; REFERENCE/DOCKET NUMBER: 97-04
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-442-6672
; TELEFAX: 206-442-6678

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;
;
; TELEX:
;
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 117 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-09-046-479-2

Alignment Scores:
Pred. No.: 4,98e-15 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 2 Gaps: 1

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Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTriLeuAspLeu 20
QY 61 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACACAGAGAGTCCAGGTGAGACCTCCC 120
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACGACTCTGTGACCTGGAG 180
Db 37 ----- 37
QY 181 CAGCAGCGCCATCTCTGGGCTTTCAGTCTTCTCCAGAGACAAAGGACTCTGGGGTCTGAC 240
Db 37 ----- 37
QY 241 CTCACTGTTTCTGGAAGGACATGGGGCTTAGAGTCTTAACAGACTGTTTCCCCCTTCC 300
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Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52

RESULT 2
US-08-822-897C-2
; Sequence 2, Application US/08822897C
; Patent No. 6380158
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Deisher, Theresa A.
; TITLE OF INVENTION: MOTILIN HOMOLOGS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 1201 Eastlake Avenue East
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/822,897C
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ORGANISM: Homo sapiens
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; ATTORNEY/AGENT INFORMATION:
; NAME: Sawislak, Deborah A
; REGISTRATION NUMBER: 37,438
; REFERENCE/DOCKET NUMBER: 97-04
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-442-6672
; TELEFAX: 206-442-6678
; TELEX:
;
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 117 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-08-822-897C-2

Alignment Scores:
Pred. No.: 4,98e-15 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 2 Gaps: 1

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QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACGACTCTGTGACCTGGAG 180
Db 37 ----- 37
QY 181 CAGCAGCGCCATCTCTGGGCTTTCAGTCTTCTCCAGAGACAAAGGACTCTGGGGTCTGAC 240
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Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52

RESULT 3
US-09-608-810A-4
; Sequence 4, Application US/09608810A
; Patent No. 6420521
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Jasper, Stephen R.
; APPLICANT: Deisher, Theresa A.
; APPLICANT: Bishop, Paul D.
; TITLE OF INVENTION: SGIP PEPTIDES
; FILE REFERENCE: 99-51
; CURRENT APPLICATION NUMBER: US/09/608,810A
; CURRENT FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: 60/141,592
; PRIOR FILING DATE: 1999-06-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
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FEATURE:
NAME/KEY: SIGNAL
LOCATION: (1)...(23)
US-09-608-810A-4

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Pred. No.: 4.98e-15 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 1 Gaps: 1

US-10-659-782b-11_COPY_112_462 (1-351) x US-09-608-810A-4 (1-117)

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Db 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACAGCTCTGTGACCTGGAG 180
Db 37 ----- 37
QY 181 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGACACAAAGGACTCTGGGTCTGAC 240
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QY 301 AGCAGAGAAGGAGTGGAAAGCCACAGCCAAAGCTGCAGCCCGAGCT 350
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RESULT 4
US-09-404-417A-2
Sequence 2, Application US/0940417A
Patent No. 6627729
GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.
APPLICANT: Deisher, Theresa A.
TITLE OF INVENTION: TML PEPTIDES
FILE REFERENCE: 97-04C1
CURRENT APPLICATION NUMBER: US/09/404,417A
CURRENT FILING DATE: 1999-09-23
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 117
TYPE: PRT
ORGANISM: Homo sapiens
US-09-404-417A-2

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Pred. No.: 4.98e-15 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 1 Gaps: 1

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RESULT 5
US-09-794-987-2
Sequence 2, Application US/09794987
Patent No. 6838438
GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.
APPLICANT: Deisher, Theresa A.
TITLE OF INVENTION: MOTILIN HOMOLOGS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: ZymoGenetics, Inc.
STREET: 1201 Eastlake Avenue East
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98102
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/794,987
FILING DATE: 27-Feb-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/046,479
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sawislak, Deborah A.
REGISTRATION NUMBER: 37,438
REFERENCE/DOCKET NUMBER: 97-04
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6672
TELEFAX: 206-442-6678
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 117 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-794-987-2

Alignment Scores:
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Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66

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QY 61 GCCATGGCAGGCTCAGCTTCTGTAGCCCTGACACCCAGAGAGTCCAGGTGAGACTCC 120
Db |||||
21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 121 CACAAAGCCCCACACATGTTGTTCCAGCCCTGCCACTTAGCAACCACTCTGTGACCTGGAG 180
Db 37 -----
QY 181 CAGCAGCCCATCTCTGGGCTTACGTCTTCTCCAGAGCACAAGGACTCTGGGTCTGAC 240
Db 37 -----
QY 241 CTCACCTGTTTCTGGAAGGACATGGGGGCTTAGAGTCTTAAACAGACTGTTTCCCCCTTCC 300
Db 37 -----
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Db |||||
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RESULT 6
US-09-853-253-2
; Sequence 2, Application US/09853253
; Patent No. 6897286
; GENERAL INFORMATION:
; APPLICANT: JASPERS, STEPHEN
; APPLICANT: SHEPPARD, PAUL
; APPLICANT: DEISHER, THERESA
; APPLICANT: BISHOP, PAUL
; TITLE OF INVENTION: Zsig33-like Peptides
; FILE REFERENCE: 00-30
; CURRENT APPLICATION NUMBER: US/09/853,253
; CURRENT FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: 60/203,300
; PRIOR FILING DATE: 2000-05-11
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-853-253-2

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Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 2 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-09-853-253-2 (1-117)
QY 1 ATGCCCTCCCGAGGACCGTCTGACGCTCTGCTCTCTCGGCATGCTCTGGCTGGACTTG 60
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1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuLeuGlyMetLeuTriLeuAspLeu 20
QY 61 GCCATGGCAGGCTCAGCTTCTGTAGCCCTGACACCCAGAGAGTCCAGGTGAGACTCC 120
Db |||||
21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 121 CACAAAGCCCCACACATGTTGTTCCAGCCCTGCCACTTAGCAACCACTCTGTGACCTGGAG 180
Db 37 -----
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QY 181 CAGCAGCCCATCTCTGGGCTTACGTCTTCTCCAGAGCACAAGGACTCTGGGTCTGAC 240
Db 37 -----
QY 241 CTCACCTGTTTCTGGAAGGACATGGGGGCTTAGAGTCTTAAACAGACTGTTTCCCCCTTCC 300
Db 37 -----
QY 301 AGCAGAAAGAGTCTGAAGAGCCACCAAGCTGCAGCCCGAGCT 350
Db |||||
38 -----ArglyGluSerLysProProAlaLysLeuGlnProArgala 52

RESULT 7
US-09-991-181-268
; Sequence 268, Application US/09991181
; Patent No. 6913919
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C53
; CURRENT APPLICATION NUMBER: US/09/991,181
; CURRENT FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
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; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
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; PRIOR FILING DATE: 1998-06-02
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; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
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PRIOR APPLICATION NUMBER: 60/089948
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PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-07

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Length:      117
Matches:     51
Conservative: 1

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Best Local Similarity: 43.2%      Mismatches: 0
Query Match:          31.7%      Indels:      66
DB:                  2          Gaps:        1

US-10-659-782B-11_COPY_112_462 (1-351) x US-09-991-181-268 (1-117)

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Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20

QY 61 GCCATGGCAGGCTCCAGTCTCTGAGCCCTGAACACAGAGAGTCCAGGTGAGACCTCCC 120
    |||||||
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln-Gln----- 37

QY 121 CACAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACCACTCTGTGACCTGGAG 180
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Db 37 ----- 37

QY 181 CAGCAGGCCCATCTCTGGGCTTCACTCTTCTCCAGAGACAAAGGACTCTGGGTCTGAC 240
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Db 37 ----- 37

QY 241 CTCACTGTTTCTGGAAGACATGGGGGCTTAGAGTCTTAAACAGACTGTTTCCCTCC 300
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Db 37 ----- 37

QY 301 ACCAGAGAAGAGTCGAGAGAGCCACAGCCCAAGCTCAGCCCGGAGCT 350
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Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52

RESULT 8
US-09-990-444-268
; Sequence 268, Application US/09990444
; Patent No. 6930170
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C19
; CURRENT APPLICATION NUMBER: US/09/990,444
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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;; PRIOR APPLICATION NUMBER: 60/091626
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;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Alignment Scores:

Pred. No.: 4,98e-15 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 2 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-09-990-444-268 (1-117)

QY 1 ATGCGCTCCCGAGGACCTCTGCAGCTCCTCCTCGGCATGCTGCTGGACTTG 60
Db 1 MetProserProglyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 61 GCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACAGAGAGTCCAGGTGAGACCTCCC 120
Db 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGACCACTTAGCAACACAGCTCTGTGACCTGGAG 180
Db 37 ----- 37
QY 181 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGACTCTGGGTCTGAC 240
Db 37 ----- 37
QY 241 CTCACGTGTTCTGGAAGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTTCC 300
Db 37 ----- 37
QY 301 AGCAGAGAAAGAGTCTGAAGAGCCACAGCCCAAGCTGAGCCCCAGCT 350
Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52

RESULT 9

US-09-796-158-2
; Sequence 2, Application US/09796158
; Patent No. 6939690
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; Deisher, Theresa A.
; TITLE OF INVENTION: MOTILIN HOMOLOGS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 1201 Eastlake Avenue East
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09796,158
; FILING DATE: 28-Feb-2001
; CLASSIFICATION: <Unknown>

;; PRIOR APPLICATION NUMBER: 09/046,479
;; APPLICATION DATE: <Unknown>
;; FILING DATE: <Unknown>
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Sawisliak, Deborah A
;; REGISTRATION NUMBER: 37,438
;; REFERENCE/DOCKET NUMBER: 97-04
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 206-442-6672
;; TELEFAX: 206-442-6678
;; TELEX: <Unknown>
;; INFORMATION FOR SEQ ID NO: 2:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 117 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; FRAGMENT TYPE: internal
;; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-796-158-2

Alignment Scores:
Pred. No.: 4,98e-15 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 2 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-09-796-158-2 (1-117)

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QY 61 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGACACCAAGAGAGTCCAGGTGAGACCTCCC 120
Db |||||
QY 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 121 CACAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACCAAGCTCTGTGACCTGGAG 180
Db 37 -----
QY 181 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 240
Db 37 -----
QY 241 CTCACGTGTTCTGGAAGGACATGGGGGCTTAGAGTCTTAACAGACTGTTTCCCTTCC 300
Db 37 -----
QY 301 ACCAGAGAAGAGTCCGAGAGCCACAGCCCAAGCTCAGCCCGAGCT 350
Db |||||
QY 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52

RESULT 10

US-09-997-333-268
;; Sequence 268, Application US/09997333
;; Patent No. 6953836
;; GENERAL INFORMATION:
;; APPLICANT: Ashkenazi, Avi J.
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J. Christopher

;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Kjaavin, Ivar J.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2730PLC27
;; CURRENT APPLICATION NUMBER: US/09/997,333
;; CURRENT FILING DATE: 2001-11-15
;; PRIOR APPLICATION NUMBER: 60/049787
;; PRIOR FILING DATE: 1997-06-16
;; PRIOR APPLICATION NUMBER: 60/062250
;; PRIOR FILING DATE: 1997-10-17
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; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Alignment Scores:
Pred. No.: 4, 98e-15 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 2 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-09-997-333-268 (1-117)
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Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGACCTAGCAACACAGCTCTGTGACCTGGAG 180
Db 37 ----- 37
QY 181 CAGCAGCGCCATCTCTGGGCTTTCAGTCTTCTCCAGAGCACAAAGACTCTGGGTCTGAC 240
Db 37 ----- 37
QY 241 CTCACCTGTTTCTGGAAGGACATGGGGGCTTAGAGTCTTAACAGACTGTTTCCCCCTTCC 300
Db 37 ----- 37
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Db 38 -----ArgLysGluSerLysProProAlaLeuLeuGlnProAla 52
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; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
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; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730PIC20
; CURRENT APPLICATION NUMBER: US/09/992,598
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
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137 PRIOR APPLICATION NUMBER: 60/091633
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140 PRIOR FILING DATE: 1998-07-07
141 PRIOR APPLICATION NUMBER: 60/091982
142 PRIOR FILING DATE: 1998-07-07


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; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Alignment Scores:
Pred. No.: 4,98e-15 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 2 Gaps: 1

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Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 121 CACAAAGCCCCACATGTTTCCAGCCCTGCCACTTAGCAACGACCTCTGTGACCTGGAG 180
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Db 37 ----- 37
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RESULT 13
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; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
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; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
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; APPLICANT: Paoni, Nicholas F.
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; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC60
; CURRENT APPLICATION NUMBER: US/09/989, 726
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Alignment Scores:
Pred. No.: 4.98e-15 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 3 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-09-989-726-268 (1-117)

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RESULT 14
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; Sequence 268, Application US/09997514
; Patent No. 7019116
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
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APPLICANT: Kljavin,Ivar J.
APPLICANT: Napier,Mary A.
APPLICANT: Pan,James
APPLICANT: Paoni,Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC46
CURRENT APPLICATION NUMBER: US/09/997,514
CURRENT FILING DATE: 2001-11-15
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;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Alignment Scores:

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DB:	3	Gaps:	1

US-10-659-782B-11_COPY_112_462 (1-351) x US-09-997-514-268 (1-117)

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Qy	181	CAGCAGCGCCATCTCTGGGGCTTCACTTCTTCCAGAGCACAAAGGACTCTGGGTCTGAC	240
Db	37	-----	37
Qy	241	CTCACTGTTTCTGGAAGGACATGGGGCTTAGAGTCTTAAACAGACTGTTTCCCTCCCTCC	300
Db	37	-----	37
Qy	301	AGCAGAGAAAGAGTCTGAAGAGCCACAGCCAAAGCTGAGCCCGAGCT	350
Db	38	-----ArgLysGluSerLysLysProProAlaLysLeuGlnProArgAla	52

RESULT 15
US-09-989-728-268
; Sequence 268, Application US/09989728
; Patent No. 7029873
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
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; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C72
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and is derived by analysis of the total score distribution.

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12	204	31.7	117	3	US-09-991-073-268	Sequence 268, App
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14	204	31.7	117	3	US-09-991-163-268	Sequence 268, App
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18	204	31.7	117	3	US-09-992-598-268	Sequence 268, App
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26	204	31.7	117	3	US-09-989-734-268	Sequence 268, App
27	204	31.7	117	3	US-09-997-653-268	Sequence 268, App
28	204	31.7	117	3	US-09-989-724-268	Sequence 268, App
29	204	31.7	117	3	US-09-989-728-268	Sequence 268, App
30	204	31.7	117	3	US-09-990-441-268	Sequence 268, App
31	204	31.7	117	3	US-09-993-667-268	Sequence 268, App
32	204	31.7	117	3	US-09-997-428-268	Sequence 268, App
33	204	31.7	117	3	US-09-997-666-268	Sequence 268, App
34	204	31.7	117	3	US-09-990-438-268	Sequence 268, App
35	204	31.7	117	3	US-09-990-562-268	Sequence 268, App
36	204	31.7	117	3	US-09-990-711-268	Sequence 268, App
37	204	31.7	117	3	US-09-989-726-268	Sequence 268, App
38	204	31.7	117	3	US-09-998-156-268	Sequence 268, App
39	204	31.7	117	3	US-09-990-437-268	Sequence 268, App
40	204	31.7	117	3	US-09-991-157-268	Sequence 268, App
41	204	31.7	117	3	US-09-997-514-268	Sequence 268, App
42	204	31.7	117	3	US-09-997-573-268	Sequence 268, App
43	204	31.7	117	3	US-09-991-172-268	Sequence 268, App
44	204	31.7	117	3	US-09-990-726-268	Sequence 268, App
45	204	31.7	117	3	US-09-997-559-268	Sequence 268, App

ALIGNMENTS

RESULT 1
US-10-659-782A-32
; Sequence 32, Application US/10659782A
; Publication No. US20050059015A1
; GENERAL INFORMATION:
; APPLICANT: Mintz, Liat
; TITLE OF INVENTION: Compositions, Reagents and Kits for and Methods of Diagnosing,
; Monitoring and Treating Obesity and/or Diabetes
; FILE REFERENCE: 28238
; CURRENT APPLICATION NUMBER: US/10/659,782A
; CURRENT FILING DATE: 2003-09-11
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 32
; LENGTH: 116
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-659-782A-32

Alignment Scores:
Pred. No.: 9.99e-51 Length: 116
Score: 605.50 Matches: 116
Percent Similarity: 99.1% Conservatives: 0
Best Local Similarity: 99.1% Mismatches: 0
Query Match: 94.0% Indels: 1
DB: 5 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-10-659-782A-32 (1-116)

QY 1 ATGCCCTCCCGAGGACCGTCTGCGATGCTCTCGGATGCTCTGGCTGGACTTG 60
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 61 GCCATGGCAGGCTCCAGCTTCCTGAGCCCTGAAACACAGAGTCCAGGTGAGACCTCCC 120

Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGlnValArgProPro 40
QY 121 CACAAGCCCAATGTTGTTCCAGCCCTGACCTAGCAACCACTCTGTGACTGGAG 180
Db 41 HisLysAlaProHisValProAlaLeuProLeuSerAsnGlnLeuCysAspLeuGlu 60
QY 181 CAGCAGCGCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 240
Db 61 GlnGlnA-gHis--TipAlaSerValPheSerGlnSerThrLysAspSerGlySerAsp 79
QY 241 CTCACCTGTTCTGGAAGACATGGGGGCTTAGAGTCTCTAAACAGACTGTTCCCTCC 300
Db 80 LeuThrValSerGlyArgThrTrpGlyLeuArgValLeuAsnArgLeuPheProProSer 99
QY 301 ACCAGAGAAGAGTCGAGAGCCACAGCCCAAGCTGCAGCCCGAGCTC 351
Db 100 SerArgGluArgSerArgSerHisGlnProSerCysSerProGluLeu 116

RESULT 2

US-10-294-191A-3
; Sequence 3, Application US/10294191A
; Publication No. US20030211512A1
; GENERAL INFORMATION:
; APPLICANT: Rothschild, Max F.
; APPLICANT: Kim, Kwan Suk
; APPLICANT: Anderson, Lloyd L.
; TITLE OF INVENTION: Novel Ghrelin Alleles and Use of the Same for Genetically Typing
; FILE REFERENCE: P05408US1
; CURRENT APPLICATION NUMBER: US/10/294,191A
; CURRENT FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: US 60/333,222
; PRIOR FILING DATE: 2001-11-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 60
; TYPE: PRT
; ORGANISM: Human
US-10-294-191A-3

Alignment Scores:

Pred. No.: 2,91e-11 Length: 60
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 4 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-10-294-191A-3 (1-60)

QY 1 ATGCCCTCCCGAGGACCGTCTGCAGCCTCTGCTCTCGGCATGCTCTGGCTGGACTTG 60
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 61 GCATGGCAGGCTCCAGCTTCTGAGCCTCTGAGCCCTGAAACACAGAGTCCAGGTGAGACTCCC 120
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 121 CACAAGCCCAATGTTGTTCCAGCCCTGCCACTTAGCAACCAAGCTCTGTGACCTGGAG 180
Db 37 ----- 37
QY 181 CAGCAGCGCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 240
Db 37 ----- 37
QY 241 CTCACCTGTTCTGGAAGGACATGGGGGCTTAGAGTCTCTAAACAGACTGTTCCCTCC 300
Db 37 ----- 37
QY 301 AGCAGAGAAGGAGTCGAAGAGCCACAGCAAGCTGCAGCCCGAGCT 350
Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52

RESULT 3

US-10-477-506-2
; Sequence 2, Application US/10477506
; Publication No. US20040157227A1
; GENERAL INFORMATION:
; APPLICANT: Chopin, Lisa K
; APPLICANT: Jeffery, Penelope L
; APPLICANT: Herington, Adrian C
; TITLE OF INVENTION: REPRODUCTIVE CANCER DIAGNOSIS AND THERAPY
; FILE REFERENCE: 225181
; CURRENT APPLICATION NUMBER: US/10/477,506
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: PR9567
; PRIOR FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: PR4919
; PRIOR FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: PCT/AU02/000582
; PRIOR FILING DATE: 2002-05-10
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-506-2

Alignment Scores:

Pred. No.: 3,08e-11 Length: 91
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 4 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-10-477-506-2 (1-91)

QY 1 ATGCCCTCCCGAGGACCGTCTGCAGCCTCTGCTCTCGGCATGCTCTGGCTGGACTTG 60
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 61 GCATGGCAGGCTCCAGCTTCTGAGCCTCTGAGCCCTGAAACACAGAGTCCAGGTGAGACTCCC 120
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 121 CACAAGCCCAATGTTGTTCCAGCCCTGCCACTTAGCAACCAAGCTCTGTGACCTGGAG 180
Db 37 ----- 37
QY 181 CAGCAGCGCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 240
Db 37 ----- 37
QY 241 CTCACCTGTTCTGGAAGGACATGGGGGCTTAGAGTCTCTAAACAGACTGTTCCCTCC 300
Db 37 ----- 37
QY 301 AGCAGAGAAGGAGTCGAAGAGCCACAGCAAGCTGCAGCCCGAGCT 350
Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52

RESULT 4

US-09-794-987-2
; Sequence 2, Application US/09794987
; Patent No. US20010041791A1
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; Deisher, Theresa A.
; TITLE OF INVENTION: MOTILIN HOMOLOGS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESS: ZymoGenetics, Inc.
; STREET: 1201 Eastlake Avenue East

APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC63
CURRENT APPLICATION NUMBER: US/09/989,722
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
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PRIOR APPLICATION NUMBER: 60/090676
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PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Alignment Scores:

Pred. No.: 3,19e-11 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 3 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-09-989-722-268 (1-117)

QY 1 ATCCCTCCCGACGGACGCTCTGCTCTGCGCATGCTCTGCTGGACTTG 60
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DB 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuIrpLeuAepLeu 20
|||
QY 61 GCCATGCGAGGCTCCAGCTTCTGAGCCCTGAACACGAGAGTCCAGGTGAGACCTCC 120
|||
DB 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
|||
QY 121 CACAAAGCCCAATGTTGTTCCAGCCCTCCACTAGCAACGAGCTCTGTGACCTGGAG 180
|||
DB 37 ----- 37
QY 181 CAGCAGCGGCATCTCTGGGCTTCAGTCTTCTCCAGAGACAAAGGACTCTGGTCTGAC 240
|||
DB 37 ----- 37
QY 241 CTCACGTGTTTCTGGAAGGACATGGGGCTTAGAGTCTTAACAGACTGTTTCCCTCCCTCC 300
|||
DB 37 ----- 37
QY 301 AGCAGAGAAAGGAGTCCGAAGCCACCACCGACCTGAGCCCGAGCT 350
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DB 38 -----ArgLysGluSerLysPheProAlaLysLeuGlnProArgAla 52
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RESULT 7

US-09-989-723-268

Sequence 268, Application US/09989723
Patent No. US20020072092A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC62
CURRENT APPLICATION NUMBER: US/09/989, 723
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
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; PRIOR FILING DATE: 1998-07-02
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; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Alignment Scores:
Pred. No.: 3,19e-11 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 3 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-09-989-723-268 (1-117)

Qy 1 ATGCCCTCCCGAGGACCGTCTGCAGCCTCTGCTCCCTCGGCATGCTCTGGCTGCACTTG 60
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
Qy 61 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACGAGAGAGTCCAGGTGAGACTCC 120
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
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QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACCAAGCTCTGTGACCTGGAG 180
Db 37 ----- 37
QY 181 CAGCAGCGGCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 240
Db 37 ----- 37
QY 241 CTCACGTGTTCTGGAAGGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCCCTTCC 300
Db 37 ----- 37
QY 301 AGCAGAAAGAGTTCGAAGAGCCACCAAGCTGCAGCCCGAGCT 350
Db 38 -----ArglysGluSerLysPheProAlaLysLeuGlnProAlaGala 52

RESULT 8
US-09-989-279-268
; Sequence 268, Application US/09989279
; Patent No. US20020072496A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Guiney, Austin L.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730PIC56
; CURRENT APPLICATION NUMBER: US/09/989, 279
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
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; PRIOR APPLICATION NUMBER: 60/065186
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; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
; PRIOR FILING DATE: 1998-06-18

Alignment Scores:			
Pred. No.:	3.19e-11	Length:	117
Score:	204.00	Matches:	51
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Best Local Similarity:	43.2%	Mismatches:	0
Query Match:	31.7%	Indels:	66
DB:	3	Gaps:	1
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Qy	61	GCATGGCAGGCTCCAGCTTCTTGAGCCCTGAAACACAGAGAGTGCAGGTGAGACCTCCC	120
Db	21	AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln-----	37
Qy	121	CACAAAGCCCAACATGTTGTTCCAGCCCTGCCACTTAGCAACAGACTCTGTGACCTGGAG	180
Db	37	-----	37
Qy	181	CAGCAGCGCATCTCTGGGCTTCAGTCTTCTCCAGAGACAAAGGACTCTGGGCTCTGAC	240
Db	37	-----	37
Qy	241	CTCACTGTTCTTGGAGGACATGGGGGCTTAGAGTCTTAAACAGACTGTTTCCCCCTTCC	300
Db	37	-----	37
Qy	301	AGCAGAGAAGGAGTGCAGAGCCACACAGAGGAGTGCAGCCCGGAGCT	350
Db	38	-----ArgLysGluSerLysProAlaLysLeuGlnProArgAla	52
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; Sequence 268, Application US/09989727			
; Patent No. US2002007247A1			
; GENERAL INFORMATION:			
; APPLICANT: Ashkenazi, Avi J.			
; APPLICANT: Baker, Kevin P.			
; APPLICANT: Botstein, David			
; APPLICANT: Desnoyers, Luc			
; APPLICANT: Eaton, Dan L.			
; APPLICANT: Ferrara, Napoleone			
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; APPLICANT: Goddard, Audrey			
; APPLICANT: Godowski, Paul J.			
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; APPLICANT: Gurney, Austin L.			
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; APPLICANT: Napier, Mary A.			
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; APPLICANT: Watanabe, Colin K.			
; APPLICANT: Williams, P. Mickey			
; APPLICANT: Wood, William I.			
; APPLICANT: Zhang, Zemin			
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic			
; TITLE OF INVENTION: Acids Encoding the Same			
; FILE REFERENCE: P2730PIC65			
; CURRENT APPLICATION NUMBER: US/09/989,727			
; CURRENT FILING DATE: 2001-11-19			
; PRIOR APPLICATION NUMBER: 60/049787			
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; PRIOR FILING DATE: 1998-07-09

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;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09
Alignment Scores:
Pred. No.: 3,198-11 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 3 Gaps: 1
US-10-659-782B-11_COPY_112_462 (1-351) x US-09-989-731-268 (1-117)
QY 1 ATGCCCTCCCGAGGACCGTCTGCAGCCTCTGCTCTCGCATGCTCTGGCTGGACTTG 60
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyWetLeuTrpLeuAspLeu 20
QY 61 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACCAGAGAGTCCAGGTGAGACCTCCC 120
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
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Db 37 ----- 37
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QY 241 CTCACTGTTTCTGGAAGGACATGGGGGTTAGAGTCTTAACAGACTGTTTCCCTTCC 300
Db 37 ----- 37
QY 301 ASCAGAAAGAGTCCGAGAGACCCAGCCAGCTGAGCCCGAGCT 350
Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAla 52
RESULT 11
US-09-989-732-268
; Sequence 268, Application US/09989732

; Patent No. US20020123463A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
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; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC57
; CURRENT APPLICATION NUMBER: US/09/989,732
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Alignment Scores:

Pred. No.:	3.19e-11	Length:	117
Score:	204.00	Matches:	51
Percent Similarity:	44.1%	Conservative:	1
Best Local Similarity:	43.2%	Mismatches:	66
Query Match:	31.7%	Indels:	1
DB:	3	Gaps:	1

US-10-659-782b-11_COPY_112_462 (1-351) x US-09-989-732-268 (1-117)

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QY	61	GCATGCGAGGCTCCAGCTTCCTGAGCCCTGAACACAGAGATCCAGGTGAGACCTCCC	120
Db	21	AlaMetAlaGlySerPheLeuSerProGluHisGlnArgValGln--Gln-----	37
QY	121	CACAAAGCCCCATGTTGTTCCAGCCCTGCCACTTAGCAACAGCAGCTCTGTGACCTGGAG	180

Db	37	-----	37
QY	181	CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAGGACTCTGGGTCTGAC	240
Db	37	-----	37
QY	241	CTCACTGTTTCTGGAAGGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTTCC	300
Db	37	-----	37
QY	301	AGCAGAGAAAGGAGTGAAGAAGCCACAGCCAAAGCTGCAGCCCGAGCT	350
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RESULT 12

US-09-991-073-268
; Sequence 268, Application US/09991073
; Patent No. US20020127576A1

GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C15
; CURRENT APPLICATION NUMBER: US/09/991,073
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
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; PRIOR FILING DATE: 1997-11-13
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; PRIOR FILING DATE: 1997-11-24
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; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02

[illegible]

Alignment Scores:

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Pred. No.: 3.19e-11 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 3 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-09-991-073-268 (1-117)

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QY 61 GCATGGCAGGCTCCAGCTCTGAGCCCTGAAACACAGAGAGTCCAGTGAGACCTCCC 120
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Db 21 AlaMetAlaGlySerSerPheLeuSerPheGluHisGlnArgValGln--Gln----- 37
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QY 121 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACCAAGCTCTGTGACCTGGAG 180
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QY 181 CAGACGCCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 240
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Db 37 ----- 37

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Db 37 ----- 37

QY 301 AGCAGAGAAGGAGTTCGAAGAAGCCACCAAGCTGAGCCCGAGCT 350
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; Sequence 268, Application US/09990442
; Patent No. US20020132252A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
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; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
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; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C8
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; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Alignment Scores:
Pred. No.: 3.19e-11 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 3 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-09-990-442-268 (1-117)

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Qy 61 GCCATGGCAGGCTCCAGCTTCTGAGCCCTCAACACAGAGAGTCCAGGTGAGACCTCCC 120
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
Qy 121 CACAAAGCCCAACATGTTGTTCCAGCCCTGCCACTTAGCAACACAGCTCTGTGACCTGGAG 180
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Qy 181 CAGCAGGCCCATCTCTGGGCTTCAGTCTTCTCCAGAGACAAAGGACTCTGGGTCTGAC 240
Db 37 ----- 37
Qy 241 CTCACCTGTTCTGGAAGGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTTCC 300
Db 37 ----- 37
Qy 301 AGCAGAGAGGAGTCCGAAGAGCCACACAGCAAGCTGCAGCCCGAGCT 350
Db 38 -----ArgLysGluSerLysProAlaLysLeuGlnProArgAla 52

RESULT 14
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; Sequence 268, Application US/09991163
; Patent No. US20020132253A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C17
CURRENT APPLICATION NUMBER: US/09/991,163
CURRENT FILING DATE: 2001-11-14
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PRIOR FILING DATE: 1997-06-16
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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Alignment Scores:

Pred. No.: 3,19e-11 Length: 117
Score: 204.00 Matches: 51
Percent Similarity: 44.1% Conservative: 1
Best Local Similarity: 43.2% Mismatches: 0
Query Match: 31.7% Indels: 66
DB: 3 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-09-991-163-268 (1-117)

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Qy 61 GCCTGGCGAGGCTCCAGCTTCTGAGCCCTGAAACACAGAGAGTCCAGGTGAGACTCCC 120
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Qy 121 CACAAGGCCCCACATGTTGTTTCCAGCCCTGCCACTTAGCAACACAGCTCTGTGACCTGGAG 180
Db 37 ----- 37
Qy 181 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 240
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Qy 241 CTCACTGTTTCTGGAAGGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCGCTTCC 300
Db 37 ----- 37

Qy 301 AGCAGAGAAGAGTCGAAAGACCAACGACCAAGCTGAGCCCGAGCT 350
Db 38 -----ArglysgluSerlyslsProProAlaLysLeuGlnProArgAla 52

RESULT 15

US-09-993-604-268
; Sequence 268, Application US/09993604
; Patent No. US20020137075A1

; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: ROY, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730F1C25
; CURRENT APPLICATION NUMBER: US/09/993,604
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
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;; PRIOR FILING DATE: 1998-07-09

Alignment Scores:

Pred. No.:	3,198-11	Length:	117
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GenCore version 5.1.9
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	204	31.7	117	7	US-11-255-699-6 Sequence 6, Appli
2	93.5	14.5	340	7	US-11-293-697-3905 Sequence 3905, Ap
3	92	14.3	297	6	US-10-953-349-31196 Sequence 31196, A
4	86.5	13.4	28	7	US-11-257-498-35 Sequence 35, Appl
5	83.5	13.0	28	7	US-11-257-498-33 Sequence 33, Appl
6	83.5	13.0	28	7	US-11-257-498-40 Sequence 40, Appl
7	83.5	13.0	873	7	US-11-283-329-170 Sequence 170, App
8	83	12.9	28	7	US-11-257-498-34 Sequence 34, Appl
9	80.5	12.5	155	7	US-11-293-697-4118 Sequence 4118, Ap

10	80.5	12.5	251	6	US-10-953-349-34427	Sequence 34427, A
11	80.5	12.5	5738	6	US-10-505-928-150	Sequence 150, App
12	79.5	12.3	1238	7	US-11-174-307B-1082	Sequence 1082, Ap
13	79.5	12.3	1413	7	US-11-174-307B-936	Sequence 936, App
14	79	12.3	312	6	US-10-449-902-34826	Sequence 34826, A
15	78.5	12.2	940	6	US-10-449-902-41125	Sequence 41125, A
16	78.5	12.2	1675	7	US-11-174-307B-658	Sequence 658, App
17	78	12.1	196	6	US-10-449-902-40356	Sequence 40356, A
18	78	12.1	1078	6	US-10-449-902-54534	Sequence 54534, A
19	78	12.1	1382	7	US-11-174-307B-828	Sequence 828, App
20	78	12.1	1382	7	US-11-174-307B-3402	Sequence 3402, Ap
21	78	12.1	2124	7	US-11-174-307B-3446	Sequence 3446, Ap
22	77.5	12.0	148	7	US-11-286-216-16	Sequence 16, Appl
23	77.5	12.0	170	6	US-10-953-349-27237	Sequence 27237, A
24	77	12.0	214	6	US-10-953-349-30500	Sequence 30500, A
25	76.5	11.9	373	6	US-10-953-349-31149	Sequence 31149, A
26	76.5	11.9	788	6	US-10-449-902-41167	Sequence 41167, A
27	76.5	11.9	1263	7	US-11-174-307B-2848	Sequence 2848, Ap
28	76.5	11.9	1437	7	US-11-174-307B-2014	Sequence 2014, Ap
29	76.5	11.9	1713	7	US-11-174-307B-2224	Sequence 2224, Ap
30	76.5	11.9	4659	7	US-11-174-307B-1816	Sequence 1816, Ap
31	76	11.8	208	6	US-10-449-902-37119	Sequence 37119, A
32	76	11.8	208	6	US-10-449-902-46697	Sequence 46697, A
33	76	11.8	1506	7	US-11-174-307B-1870	Sequence 1870, Ap
34	76	11.8	1942	7	US-11-174-307B-3732	Sequence 3732, Ap
35	76	11.8	1959	7	US-11-174-307B-1428	Sequence 1428, Ap
36	75.5	11.7	135	6	US-10-953-349-30240	Sequence 30240, A
37	75.5	11.7	238	6	US-10-953-349-34296	Sequence 34296, A
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39	75.5	11.7	434	6	US-10-449-902-46654	Sequence 46654, A
40	75.5	11.7	1428	7	US-11-174-307B-1144	Sequence 1144, Ap
41	75.5	11.7	1809	7	US-11-174-307B-2054	Sequence 2054, Ap
42	75	11.6	28	7	US-11-257-498-42	Sequence 42, Appl
43	75	11.6	268	6	US-10-449-902-49268	Sequence 49268, A
44	75	11.6	349	6	US-10-953-349-11453	Sequence 11453, A
45	75	11.6	850	7	US-11-174-307B-534	Sequence 534, App

ALIGNMENTS

RESULT 1
US-11-255-699-6
; Sequence 6, Application US/11255699
; Publication No. US20060105393A1
; GENERAL INFORMATION:
; APPLICANT: APFEL, CHRISTIAN
; APPLICANT: ENDERLE, THILO
; APPLICANT: ZOFFMANN, SANNAH JENSEN
; APPLICANT: PENSKI, MIREILLE
; TITLE OF INVENTION: LIGAND-RECEPTOR TRACKING ASSAYS
; FILE REFERENCE: 22817
; CURRENT APPLICATION NUMBER: US/11/255,699
; CURRENT FILING DATE: 2005-10-21
; PRIOR APPLICATION NUMBER: EP 04105285.3
; PRIOR FILING DATE: 2004-10-25
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 6
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-255-699-6

Alignment Scores:
Pred. No.: 1.85e-13
Score: 204.00
Percent Similarity: 44.1%
Best Local Similarity: 43.2%
Query Match: 31.7%
DB: 7
Length: 117
Matches: 51
Conservative: 1
Mismatches: 0
Indels: 66
Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-11-255-699-6 (1-117)

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Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
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; Sequence 3905, Application US/11293697
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; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/11/293,697
; CURRENT FILING DATE: 2005-12-05
; PRIOR APPLICATION NUMBER: US/10/108,260
; PRIOR FILING DATE: 2002-03-28
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3905
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-293-697-3905

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Db 53 LeuSerProAlaProHisThrArgSerSerProSerPheSerProProThrAlaGly 72
|||||
QY 129 CCCACATGT-----TGTTCCAGC----- 146
|||||
Db 73 ProProCysSerValLeuGlnGlyThrGlyAlaSerGlnSerCysHisSerAlaLeuPro 92
|||||
QY 147 -----CCTGCCACTTAGCAACCCAGCTCTGTGACCTGGAGCAGCGCCA 191
|||||
Db 93 IleProAlaThrProProThrGlnAlaGlnProAlaMetThrProAlaSerAlaSerPro 112
|||||
QY 192 TCTCTGGGCTTCA-----GTCTTCTCCA 215
|||||
Db 113 Ser-TrpGlySerHisSerThrProProLeuAlaProAlaThrProThrProSerGlnG 132
|||||

QY 216 GAGCACAAAGACTCTGGTCTGACCTCAGCTGTTTCTGAAGACATGGGGCTTAGAGT 275
|||||
Db 132 nCyProGlnAspSerPro-----GlyLeuArgVa 142
|||||
QY 276 CCTAAACAGACTGTTTCCCTTCCAGCAGAGAAAGAGTCCGAAGAAGCCACAGCCAAG 335
|||||
Db 142 I---GlyProLeuIleProGluGlnAspTyrGluArgLeuGlu-----As 156
|||||
QY 336 CTCGAGCCCCGAG 348
|||||
Db 156 pCysAspProGlu 160
|||||
RESULT 3
US-10-953-349-31196
; Sequence 31196, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
; APPLICANT: ALEXANDROV, Nickolai et al.
; TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
; TITLE OF INVENTION: ENCODED THERBY
; FILE REFERENCE: 2750-1579FUS2
; CURRENT APPLICATION NUMBER: US/10/953,349
; CURRENT FILING DATE: 2004-09-30
; NUMBER OF SEQ ID NOS: 40252
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 31196
; LENGTH: 297
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-10-953-349-31196

Alignment Scores:
Pred. No.: 0.0897 Length: 297
Score: 92.00 Matches: 36
Percent Similarity: 39.8% Conservative: 9
Best Local Similarity: 31.9% Mismatches: 43
Query Match: 14.3% Indels: 25
DB: 6 Gaps: 5
US-10-659-782b-11_COPY_112_462 (1-351) x US-10-953-349-31196 (1-297)
QY 27 CTCCTGCTCTCCGCGCATGCTCTGGCTGACTTGGCCATGGCAGGCTCCAGCTTCTCGAG 86
|||||
Db 11 ProProSerProArgSerThrSerSerProThrGlyProSerSerSerArgSerProSer 30
|||||
QY 87 CCCTGAACACAGAGAGTCCAGGTGAGACCTCCCGCCACAAAGCCCGCACATGTTGTTCCAGC 146
|||||
Db 31 ProThrSerProSerSerPro---SerProSerProThrSerProArgThrCysSerSer 49
|||||
QY 147 -----CCTGCCACTTAGCAACCCAGCTCTGTGACCTGGAGCAGCGCCATCTCTGGGC 200
|||||
Db 50 AlaAlaProSerThr-----ArgThrAlaProThrThr-Al 62
|||||
QY 201 TTCAGTCTTCTCCCGAGAGCACAAAGGACTCTGGGTCTGACCTCACTGTTTCTGGAAGGAC 260
|||||
Db 62 aSerThrProArgArgProAlaAlaSerSerAlaSerArgThrAlaSerSerArgSe 82
|||||
QY 261 ATGGGGGCTTAGAGTCTCTAAACAGACTGTTTCCC-----CCTTCCAGCAGAGA 308
|||||
Db 82 r-----ProProProThrThrProSerSerAlaAl 92
|||||
QY 309 AAGGAGTCTGAAGAAGCCACCAGCCAAAGCTGCAGCGCCC 345
|||||
Db 92 aSerProArgArgThrArgProProSerSerProPro 104
|||||
RESULT 4
US-11-257-498-35
; Sequence 35, Application US/11257498
; Publication No. US20060088550A1
; GENERAL INFORMATION:
; APPLICANT: Bachmann, Martin F
; APPLICANT: Furlurija, Alma

```
; APPLICANT: Saudan, Phillippe
; TITLE OF INVENTION: Gastric Inhibitory Polypeptide (GIP) Antigen Arrays and Used therefor
; FILE REFERENCE: 1700.0540001
; CURRENT APPLICATION NUMBER: US/11/257,498
; CURRENT FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,465
; PRIOR FILING DATE: 2004-10-25
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Canis familiaris
US-11-257-498-35

Alignment Scores:
Pred. No.: 0.227      Length: 28
Score: 86.50         Matches: 21
Percent Similarity: 46.8% Conservative: 1
Best Local Similarity: 44.7% Mismatches: 2
Query Match: 13.4% Indels: 23
DB: 7 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-11-257-498-35 (1-28)

QY 207 CTTCTCCAGAGCAAAAGGACTCTGGGTCTGACCTCCTGTTCTTGGNAGGACATGGGG 266
Db 5 LeuSerProGluHisGlnLysLeu-----GlnGlnArgLysGluSerLysLysPro 21

QY 267 GCTTAGAGTCTTAAACAGACTGTTTCCCTTCCAGCAGAGAAAGAGTCTGGAAGAGCA 326
Db 13 -----GlnGlnArgLysGluSerLysLysPro 21

RESULT 5
US-11-257-498-33
; Sequence 33, Application US/11257498
; Publication No. US20060088550A1
; GENERAL INFORMATION:
; APPLICANT: Bachmann, Martin F
; APPLICANT: Fulurija, Alma
; APPLICANT: Saudan, Phillippe
; TITLE OF INVENTION: Gastric Inhibitory Polypeptide (GIP) Antigen Arrays and Used therefor
; FILE REFERENCE: 1700.0540001
; CURRENT APPLICATION NUMBER: US/11/257,498
; CURRENT FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,465
; PRIOR FILING DATE: 2004-10-25
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 33
; LENGTH: 28
; TYPE: PRT
; ORGANISM: homo sapiens
US-11-257-498-33

Alignment Scores:
Pred. No.: 0.465      Length: 28
Score: 83.50         Matches: 20
Percent Similarity: 46.8% Conservative: 2
Best Local Similarity: 42.6% Mismatches: 2
Query Match: 13.0% Indels: 23
DB: 7 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-11-257-498-33 (1-28)

QY 207 CTTCTCCAGAGCAAAAGGACTCTGGGTCTGACCTCCTGTTCTTGGNAGGACATGGGG 266
Db 5 LeuSerProGluHisGlnArgVal-----GlnGlnArgLysGluSerLysLysPro 21

QY 267 GCTTAGAGTCTTAAACAGACTGTTTCCCTTCCAGCAGAGAAAGAGTCTGGAAGAGCA 326
Db 13 -----GlnGlnArgLysGluSerLysLysPro 21

RESULT 6
US-11-257-498-40
; Sequence 40, Application US/11257498
; Publication No. US20060088550A1
; GENERAL INFORMATION:
; APPLICANT: Bachmann, Martin F
; APPLICANT: Fulurija, Alma
; APPLICANT: Saudan, Phillippe
; TITLE OF INVENTION: Gastric Inhibitory Polypeptide (GIP) Antigen Arrays and Used therefor
; FILE REFERENCE: 1700.0540001
; CURRENT APPLICATION NUMBER: US/11/257,498
; CURRENT FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,465
; PRIOR FILING DATE: 2004-10-25
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 40
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Felis catus
US-11-257-498-40

Alignment Scores:
Pred. No.: 0.465      Length: 28
Score: 83.50         Matches: 20
Percent Similarity: 46.8% Conservative: 2
Best Local Similarity: 42.6% Mismatches: 2
Query Match: 13.0% Indels: 23
DB: 7 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-11-257-498-40 (1-28)

QY 207 CTTCTCCAGAGCAAAAGGACTCTGGGTCTGACCTCCTGTTCTTGGNAGGACATGGGG 266
Db 5 LeuSerProGluHisGlnLysVal-----GlnGlnArgLysGluSerLysLysPro 21

QY 267 GCTTAGAGTCTTAAACAGACTGTTTCCCTTCCAGCAGAGAAAGAGTCTGGAAGAGCA 326
Db 13 -----GlnGlnArgLysGluSerLysLysPro 21

RESULT 7
US-11-283-329-170
; Sequence 170, Application US/11283329
; Publication No. US20060134670A1
; GENERAL INFORMATION:
; APPLICANT: Piu, Fabrice
; APPLICANT: Piu, Fabrice
; TITLE OF INVENTION: ENABLING TOOLS TO IDENTIFY LIGANDS FOR
; FILE REFERENCE: ACADIA.043A
; CURRENT APPLICATION NUMBER: US/11/283,329
; CURRENT FILING DATE: 2005-11-18
; PRIOR APPLICATION NUMBER: 60/629,811
; PRIOR FILING DATE: 2004-11-19
; NUMBER OF SEQ ID NOS: 242
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 170
; LENGTH: 873
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-283-329-170
```

```
; APPLICANT: Saudan, Phillippe
; TITLE OF INVENTION: Gastric Inhibitory Polypeptide (GIP) Antigen Arrays and Used therefor
; FILE REFERENCE: 1700.0540001
; CURRENT APPLICATION NUMBER: US/11/257,498
; CURRENT FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,465
; PRIOR FILING DATE: 2004-10-25
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Canis familiaris
US-11-257-498-35

Alignment Scores:
Pred. No.: 0.227      Length: 28
Score: 86.50         Matches: 21
Percent Similarity: 46.8% Conservative: 1
Best Local Similarity: 44.7% Mismatches: 2
Query Match: 13.4% Indels: 23
DB: 7 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-11-257-498-35 (1-28)

QY 207 CTTCTCCAGAGCAAAAGGACTCTGGGTCTGACCTCCTGTTCTTGGNAGGACATGGGG 266
Db 5 LeuSerProGluHisGlnLysLeu-----GlnGlnArgLysGluSerLysLysPro 21

QY 267 GCTTAGAGTCTTAAACAGACTGTTTCCCTTCCAGCAGAGAAAGAGTCTGGAAGAGCA 326
Db 13 -----GlnGlnArgLysGluSerLysLysPro 21

RESULT 5
US-11-257-498-33
; Sequence 33, Application US/11257498
; Publication No. US20060088550A1
; GENERAL INFORMATION:
; APPLICANT: Bachmann, Martin F
; APPLICANT: Fulurija, Alma
; APPLICANT: Saudan, Phillippe
; TITLE OF INVENTION: Gastric Inhibitory Polypeptide (GIP) Antigen Arrays and Used therefor
; FILE REFERENCE: 1700.0540001
; CURRENT APPLICATION NUMBER: US/11/257,498
; CURRENT FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,465
; PRIOR FILING DATE: 2004-10-25
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 33
; LENGTH: 28
; TYPE: PRT
; ORGANISM: homo sapiens
US-11-257-498-33

Alignment Scores:
Pred. No.: 0.465      Length: 28
Score: 83.50         Matches: 20
Percent Similarity: 46.8% Conservative: 2
Best Local Similarity: 42.6% Mismatches: 2
Query Match: 13.0% Indels: 23
DB: 7 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-11-257-498-33 (1-28)

QY 207 CTTCTCCAGAGCAAAAGGACTCTGGGTCTGACCTCCTGTTCTTGGNAGGACATGGGG 266
Db 5 LeuSerProGluHisGlnArgVal-----GlnGlnArgLysGluSerLysLysPro 21

QY 267 GCTTAGAGTCTTAAACAGACTGTTTCCCTTCCAGCAGAGAAAGAGTCTGGAAGAGCA 326
Db 13 -----GlnGlnArgLysGluSerLysLysPro 21

RESULT 6
US-11-257-498-40
; Sequence 40, Application US/11257498
; Publication No. US20060088550A1
; GENERAL INFORMATION:
; APPLICANT: Bachmann, Martin F
; APPLICANT: Fulurija, Alma
; APPLICANT: Saudan, Phillippe
; TITLE OF INVENTION: Gastric Inhibitory Polypeptide (GIP) Antigen Arrays and Used therefor
; FILE REFERENCE: 1700.0540001
; CURRENT APPLICATION NUMBER: US/11/257,498
; CURRENT FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,465
; PRIOR FILING DATE: 2004-10-25
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 40
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Felis catus
US-11-257-498-40

Alignment Scores:
Pred. No.: 0.465      Length: 28
Score: 83.50         Matches: 20
Percent Similarity: 46.8% Conservative: 2
Best Local Similarity: 42.6% Mismatches: 2
Query Match: 13.0% Indels: 23
DB: 7 Gaps: 1

US-10-659-782B-11_COPY_112_462 (1-351) x US-11-257-498-40 (1-28)

QY 207 CTTCTCCAGAGCAAAAGGACTCTGGGTCTGACCTCCTGTTCTTGGNAGGACATGGGG 266
Db 5 LeuSerProGluHisGlnLysVal-----GlnGlnArgLysGluSerLysLysPro 21

QY 267 GCTTAGAGTCTTAAACAGACTGTTTCCCTTCCAGCAGAGAAAGAGTCTGGAAGAGCA 326
Db 13 -----GlnGlnArgLysGluSerLysLysPro 21

RESULT 7
US-11-283-329-170
; Sequence 170, Application US/11283329
; Publication No. US20060134670A1
; GENERAL INFORMATION:
; APPLICANT: Piu, Fabrice
; APPLICANT: Piu, Fabrice
; TITLE OF INVENTION: ENABLING TOOLS TO IDENTIFY LIGANDS FOR
; FILE REFERENCE: ACADIA.043A
; CURRENT APPLICATION NUMBER: US/11/283,329
; CURRENT FILING DATE: 2005-11-18
; PRIOR APPLICATION NUMBER: 60/629,811
; PRIOR FILING DATE: 2004-11-19
; NUMBER OF SEQ ID NOS: 242
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 170
; LENGTH: 873
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-283-329-170
```

Alignment Scores:

Pred. No.: 0.815 Length: 873
Score: 83.50 Matches: 37
Percent Similarity: 35.8% Conservative: 6
Best Local Similarity: 30.8% Mismatches: 36
Query Match: 13.0% Indels: 41
DB: 7 Gaps: 6

US-10-659-782B-11_COPY_112_462 (1-351) x US-11-293-329-170 (1-873)

QY 32 TGCTCTCGCATGCTCTGGCTGGACT-----TGCCCATGGCAGGCT 73
|||||...|||||
Db 614 CysSerSerSerCysSerGlyTrpAlaThrSerCysCysThrCysTrpProAlaTrpPro 633
|||||...|||||
QY 74 CCAGTTCTGAGCCCTGAACACACAGAGATCCAGTGAGACCTCCACAAAGCCCCAC 133
...|||...|||...|||...|||...|||...|||...|||...|||...|||...|||
Db 634 ThrSer-ProAlaPro-----ProArgSerPro-----AlaProProArgSerProPr 649
|||||...|||||
QY 134 ATGTTGTTCCAGCCCTGCCACTTAGCAACACGACTCTGTGACTGGAGCAGCGCCCATC 193
|||||...|||||
Db 649 oProProArgSerPro-----ProProProArgSerProProLeuHisGluAlaSe 666
|||||...|||||
QY 194 TCTGGCTTCAGTCTTCTCCAGACACAAA-----GGACT 229
...|||...|||...|||...|||...|||...|||...|||...|||...|||...|||
Db 666 rAlaGlySerLeuLeuArgProGlyHisSerPheLeuArgAspGlyThrSerLeuGlyWe 686
|||||...|||||
QY 230 CTGGTCTGACCTCACTCTTCTGGAAGACATGGGGCTTAGAGTCTCTAAACAGACTGT 289
...|||...|||...|||...|||...|||...|||...|||...|||...|||...|||
Db 686 tLeu-ArgGluLeuMetValValIleArgIleTrpGlyLeuLeu----- 700
|||||...|||||
QY 290 TTCCCTTCCAGCAGAGAAAGGAGTCAAGAAAGCCACGACGACGCTGCGAGCCCC 345
...|||...|||...|||...|||...|||...|||...|||...|||...|||...|||
Db 701 -----LysProSerCysLeuPro 706
|||||...|||||

RESULT 8

US-11-257-498-34

; Sequence 34, Application US/11257498

; Publication No. US20060088550A1

; GENERAL INFORMATION:

; APPLICANT: Bachmann, Martin F

; APPLICANT: Furlurija, Alma

; APPLICANT: Saudan, Phillippe

; TITLE OF INVENTION: Gastric Inhibitory Polypeptide (GIP) Antigen Arrays and Used therefor

; FILE REFERENCE: 1700.0540001

; CURRENT APPLICATION NUMBER: US/11/257,498

; CURRENT FILING DATE: 2005-10-25

; PRIOR APPLICATION NUMBER: 60/621,465

; PRIOR FILING DATE: 2004-10-25

; NUMBER OF SEQ ID NOS: 76

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 34

; LENGTH: 28

; TYPE: PRT

; ORGANISM: Mus musculus

US-11-257-498-34

Alignment Scores:

Pred. No.: 0.524 Length: 28
Score: 83.00 Matches: 16
Percent Similarity: 100.0% Conservative: 0
Best Local Similarity: 100.0% Mismatches: 0
Query Match: 12.9% Indels: 0
DB: 7 Gaps: 0

US-10-659-782B-11_COPY_112_462 (1-351) x US-11-257-498-34 (1-28)

QY 300 CAGCAGAAAGGATCGAAGAACCCACAGCAAGCTGCGAGCCCGA 347

|||||...|||||

Db 13 GlnGlnArgLysGluSerLysProAlaLysLeuGlnProArg 28

|||||...|||||

RESULT 9

US-11-293-697-4118

; Sequence 4118, Application US/11293697

; Publication No. US20060105376A1

; GENERAL INFORMATION:

; APPLICANT: HELIX RESEARCH INSTITUTE

; TITLE OF INVENTION: Novel full length cDNA

; FILE REFERENCE: HI-A0106

; CURRENT APPLICATION NUMBER: US/11/293,697

; CURRENT FILING DATE: 2005-12-05

; PRIOR APPLICATION NUMBER: US/10/108,260

; PRIOR FILING DATE: 2002-03-28

; NUMBER OF SEQ ID NOS: 5458

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 4118

; LENGTH: 155

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-293-697-4118

Alignment Scores:

Pred. No.: 1.26 Length: 155
Score: 80.50 Matches: 31
Percent Similarity: 36.1% Conservative: 12
Best Local Similarity: 26.1% Mismatches: 36
Query Match: 12.5% Indels: 40
DB: 7 Gaps: 5

US-10-659-782B-11_COPY_112_462 (1-351) x US-11-293-697-4118 (1-155)

QY 47 TCTGGCTGGACTTGGCCATGGCAGCTCCAGCTTCCTGAGCCCTGAACACCA----- 98
|||...|||...|||...|||...|||...|||...|||...|||...|||...|||
Db 48 SerAlaTrpLysTrpAlaTrpLysSerLysSerAlaSerLeuGly-ProAlaProSe 67
|||...|||...|||...|||...|||...|||...|||...|||...|||...|||
QY 99 -----GAGAGTCCAGGTGAGACCTC 118
|||||...|||||
Db 67 rSerArgArgProLeuGlnValGlnAsnPheLeuGluSerAlaSerProGlyProAlaPr 87
|||||...|||||
QY 119 CCCACAAAGCCCATGTTGTTCCAGCCCTGCCACTTAGCAACAGCTCTGTGACCTGG 178
|||...|||...|||...|||...|||...|||...|||...|||...|||...|||
Db 87 oProAlaSer-----GlnTrpProLeuSerAlaGlnProSerSerTrpLeuSe 103
|||||...|||||
QY 179 AGCAGCAGCCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAGGACTCTGGGTCTG 238
|||||...|||||
Db 103 rAlaAlaPheProGlyProAlaPheAsp----- 112
|||||...|||||
QY 239 ACCTCACTGTTCTGGAAGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCC----- 293
|||||...|||...|||...|||...|||...|||...|||...|||...|||...|||
Db 113 -----PheTrpGlnProLeuGlnAla-----GlnAsnLeuIleSerSerAr 126
|||||...|||||
QY 294 -CCCTTCAGCAGAAAGGAGTCGAAGAGCCACCAGCAAGCTGCGAGCCCGA 347
|||...|||...|||...|||...|||...|||...|||...|||...|||...|||
Db 126 gProLeuGlnAlaArgProProAlaSerArgArgProAlaGlnProArg 144
|||||...|||||

RESULT 10

US-10-953-349-34427

; Sequence 34427, Application US/10953349

; Publication No. US20060107345A1

; GENERAL INFORMATION:

; APPLICANT: ALEXANDROV, Nickolai et al.

; TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES

; FILE REFERENCE: ENCODED THERBY

; FILE REFERENCE: 2750-1579FUS2

; CURRENT APPLICATION NUMBER: US/10/953,349

; CURRENT FILING DATE: 2004-09-30

; NUMBER OF SEQ ID NOS: 40252

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 34427

; LENGTH: 251

; TYPE: PRT

; ORGANISM: Zea mays subsp. mays

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (65)..(65)

; OTHER INFORMATION: Xaa can be any naturally occurring amino acid

US-10-953-349-34427


```
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: GI Number: 7636182; NR Description: glycine-rich protein
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: GI Number: 34898126; NR Description: putative glycine-rich
; OTHER INFORMATION: cell wall protein precursor [Oryza sativa (japonica
; OTHER INFORMATION: cultivar-group)] >gi|24059890|dbj|BAC21356.1| putative glycine-ri
; OTHER INFORMATION: cell wall protein precursor [Oryza sativa (japonica
US-11-174-307B-1082
Alignment Scores:
Pred. No.: 2.24 Length: 1238
Score: 79.50 Matches: 30
Percent Similarity: 27.7% Conservative: 1
Best Local Similarity: 26.8% Mismatches: 50
Query Match: 12.3% Indels: 31
DB: 7 Gaps: 4
US-10-659-782B-11_COPY_112_462 (1-351) x US-11-174-307B-1082 (1-1238)
QY 343 GCCTCAGCTGGCTGGTGGCTTCTTCGACTCCTTCTCTGCTGGAAGGGGAACAGTC 284
Db 123 GlyCysGlyThrThrGlyGlyThrThrCysThrCysCys2-----GlyAlaThrGly 140
QY 283 TGTTTAGGACTCTAAGCCCCCATGTCTTCCAGAAACAGTGAGGTCAGACCCAGAGTCCT 224
Db 141 CysAlaGlyCysGlyAla----- 146
QY 223 TTGTGCTCTGGGAGAAGACTGAAGCCAGAGATGGCGTGTCTCCAGGTCACAGACT 164
Db 147 -----GlyGlyThrAlaGlyThrAlaGlyGlyCysThrThrGlyGlyGlyAla 164
QY 163 GGTTCCTAAGTGGGAGGCTGAACACATGTGGGGCTTTGTGGGAGGCTCA----- 110
Db 165 GlyCysThrAlaThrGlyCysGlyThrCysThrGlyCysCysGlyGlyAlaGlyGlyAla 184
QY 109 -----CCTGGACTCTCTGGTGTTCAGGGCTCAGGAAGCTGGAGCCTGCCATGGCCA 59
Db 185 GlyGlyCysGlyGlyCysGlyGlyCysGlyGlyThrGlyGly----- 198
QY 58 AGTCAGCCAGACGATGCCGAGGAGCAGAGGCTGC 23
Db 199 -----AlaGlyGlyCysGlyGlyCysGlyGlyCys 208
RESULT 13
US-11-174-307B-936
; Sequence 936, Application US/11174307B
; Publication No. US20060143729A1
; GENERAL INFORMATION:
; APPLICANT: ALEXANDROV, Nikolai
; APPLICANT: BROVER, Vyacheslav
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY
; FILE OF INVENTION: USEFUL FOR MODIFYING PLANT CHARACTERISTICS
; FILE REFERENCE: 2750-1601PUS2
; CURRENT APPLICATION NUMBER: US/11/174,307B
; CURRENT FILING DATE: 2005-06-30
; PRIOR APPLICATION NUMBER: 60/583,671
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/583,781
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/583,651
; PRIOR FILING DATE: 2004-06-30
; NUMBER OF SEQ ID NOS: 5544
; SEQ ID NO 936
; LENGTH: 1413
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Pfam Name: Abhydrolase_3; Pfam Description: alpha/beta
```

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; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Pfam Name: Pyr_redox_2; Pfam Description: Pyridine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Pfam Name: COesterase; Pfam Description: Carboxylesterase
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Pfam Name: Pkinase; Pfam Description: Protein kinase domain
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Pfam Name: FH2; Pfam Description: Formin Homology 2 Domain
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: GI Number: 50948247; NR Description: putative pepper esterase
; OTHER INFORMATION: [Oryza sativa (japonica cultivar-group)]
; OTHER INFORMATION: >gi|42407543|dbj|BAD10748.1| putative pepper esterase [Oryza sativa
; OTHER INFORMATION: (japonica cultivar-group)] >gi|42408724|dbj|BAD09942.1| putative
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: GI Number: 21593183; NR Description: unknown [Arabidopsis thaliana]
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: GI Number: 48714603; NR Description: putative esterase [Cicer
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: GI Number: 5487873; NR Description: PrMC3 [Pinus radiata]
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: GI Number: 8574455; NR Description: pepper esterase [Capsicum
US-11-174-307B-936
Alignment Scores:
Pred. No.: 2.29 Length: 1413
Score: 79.50 Matches: 36
Percent Similarity: 34.8% Conservative: 3
Best Local Similarity: 32.1% Mismatches: 39
Query Match: 12.3% Indels: 34
DB: 7 Gaps: 5
US-10-659-782B-11_COPY_112_462 (1-351) x US-11-174-307B-936 (1-1413)
QY 343 GCCTCAGCTTGGCTGGTGGCTTCTTCGACTCCTTCTCTGGAAGGGGAACAGTC 284
Db 856 GlyCysGlyCysThrGly-----CysCysThrGlyGlyThrCysAla 869
QY 283 TGTTTAGACTCTAAGCCCCCATGTCTTCCAGAAACAGTGAGGTCAGACCCAGAGTCCT 224
Db 870 CysCysGlyCysAlaAlaCysThrThr-----GlyGlyGlyCysGlyAla 884
QY 223 TTGTGCTCTGGGAGAAGACTGAAGCCAGAGATGGCGCT-----GCTGCTCCAGCT 173
Db 885 CysCysCysGly-----CysThrGlyAlaThrCysGlyAlaCysAlaGly 899
QY 172 CACAGAGCTGGTTGCTAAGTGGCAGGGCTGGAACACATGTGGGCTTTGTGGGAGGTC 113
Db 900 GlyCysAlaGlyCys--GlyGlyGlyAlaGlyThrThrCysGlyCysThrCysGlyGly- 918
QY 112 TCACCTGGACTCTCTGGTGTTCAGGGCTCAGGAAGCTGGAGCCTGCCATGGCCAAGTCCA 53
Db 919 ThrGlyGlyCysThrGlyCysAlaGlyGly----- 928
QY 52 GCCAGAGCATGCCGAGGAGCAGAGGCTGC 23
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Db 929 -----AlaCysCysGlyCysGlyCys 936

RESULT 14

US-10-449-902-34826
; Sequence 34826, Application US/10449902
; Publication No. US20060123505A1
; GENERAL INFORMATION:
; APPLICANT: National Institute of Agrobiological Sciences.
; APPLICANT: Bio-oriented Technology Research Advancement Institution.
; APPLICANT: The Institute of Physical and Chemical Research.
; APPLICANT: Foundation for Advancement of International Science.
; TITLE OF INVENTION: FULL-LENGTH PLANT cDNA AND USES THEREOF
; FILE REFERENCE: MOA-A0205Y1-US
; CURRENT APPLICATION NUMBER: US/10/449,902
; CURRENT FILING DATE: 2003-05-29
; PRIOR APPLICATION NUMBER: JP 2002-203269
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: JP 2002-383870
; PRIOR FILING DATE: 2002-12-11
; NUMBER OF SEQ ID NOS: 56791
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 34826
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Oryza sativa
US-10-449-902-34826

Alignment Scores:

Pred. No.:	2.02	Length:	312
Score:	79.00	Matches:	35
Percent Similarity:	41.8%	Conservative:	11
Best Local Similarity:	31.8%	Mismatches:	48
Query Match:	12.3%	Indels:	16
DB:	6	Gaps:	5

US-10-659-782b-11_COPY_112_462 (1-351) x US-10-449-902-34826 (1-312)

QY	14	GGACCTCTGCACCCCTCTCTCTGGCATGCTCTGGTGAGCTGGCCATGGCAGGCT	73
Db	2	GlyProArgCysProSerThrProAlaSerSerProSerArgProProThrProAla	21
QY	74	CCAGCTTCTCTGAGCCCTGGAACACACAGAGAGTCCAGGTGAGACCTCCCAACAAAGCCCA	133
Db	22	ProArg-ProProPro---ThrProCysProProAlaProSerProSerProProSe	40
QY	134	AGTTGTTCCAGCCCTGCCACTTAGCAACACAGCTCTGTGACCTGGAGCAGCAGCCATC	193
Db	40	rSerArgSerProProThrSerGlyAlaProSerProAlaProAlaProSerAlaProPr	60
QY	194	TCTGGGCTTCAGTCTCTCCAGAGCACAAGAGCTCTGGTCTGACCTCACTGTTCTG	253
Db	60	oThrSer-----Pro-SerSerProSerProThrAlaAlaProAlaSe	76
QY	254	GAAGGACATGGGGCTTAGAGTCTTAACACAGACTGTTTCCCTCCAGCAGAGAAAGGA	313
Db	76	laArgPro-----SerArg-----ProProThrSerAlaThrSerS	88
QY	314	GTGGAAGAGCCACCAAGCTGC	339
Db	88	erArgProSer---SerProAlaCys	95

RESULT 15

US-10-449-902-41125
; Sequence 41125, Application US/10449902
; Publication No. US20060123505A1
; GENERAL INFORMATION:
; APPLICANT: National Institute of Agrobiological Sciences.
; APPLICANT: Bio-oriented Technology Research Advancement Institution.
; APPLICANT: The Institute of Physical and Chemical Research.
; APPLICANT: Foundation for Advancement of International Science.
; TITLE OF INVENTION: FULL-LENGTH PLANT cDNA AND USES THEREOF
; FILE REFERENCE: MOA-A0205Y1-US
; CURRENT APPLICATION NUMBER: US/10/449,902

; CURRENT FILING DATE: 2003-05-29
; PRIOR APPLICATION NUMBER: JP 2002-203269
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: JP 2002-383870
; PRIOR FILING DATE: 2002-12-11
; NUMBER OF SEQ ID NOS: 56791
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 41125
; LENGTH: 940
; TYPE: PRT
; ORGANISM: Oryza sativa
US-10-449-902-41125

Alignment Scores:

Pred. No.:	2.72	Length:	940
Score:	78.50	Matches:	36
Percent Similarity:	43.0%	Conservative:	16
Best Local Similarity:	29.8%	Mismatches:	41
Query Match:	12.2%	Indels:	28
DB:	6	Gaps:	6

US-10-659-782b-11_COPY_112_462 (1-351) x US-10-449-902-41125 (1-940)

QY	3	GCCTCCCGGAGGACCTCTCTGAGCCT	-----CCTGCTCTCTCGG	41
Db	395	AlaLeuArgSerArgGlyLeuGlnProGlySerLeuGlnSerLeuGlnProAlaProArg	414	
QY	42	CATGCTCTGGCTGGACTTGGCCATGGCAGCTCCAGCTTCTGAGCCCTGAACACACAGAG	101	
Db	415	HisAspLeu---GlyIleLysAsnSerIleIleGln---Ala-AsnProValHisProSe	432	
QY	102	AGTCAGGTGAGACCTCCCAACAAAGCCCAACATGTTTCCAGCCCTGCCACTTAGCAA	161	
Db	432	rIleAlaAlaLeuHisAlaGlnThrAlaProHis-----GlnProIleSerTh	448	
QY	162	CCAGCTCTGTGACCTGGAGCAGCAGCCCATCTCTGGCTTCACTTCTCCACAGCAGC	221	
Db	448	rProGluAlaLeuValLysAlaLysArgLeuSerGlyAlaLeuPheSerSerSe	469	
QY	222	AAAGGACTCTGGGTCTGACCTCACTCTTTTCTGGAAGGACATGGGGCTTAGAGTCTCTAAA	281	
Db	468	r-----SerSerLeuThr-----LeuAs	474	
QY	282	CAGACTGTTTCCCTTCCAGCAGAGAAAGGAGTGAAGAGCAGCAGCAGCAGCTCAG	341	
Db	474	nThrIleAlaSerThrSerProSerGluArgAlaGlyMetAlaHisSerProSerLeuSe	494	
QY	342	C	342	
Db	494	r	494	

Search completed: July 11, 2006, 16:56:58
Job time : 19 secs

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